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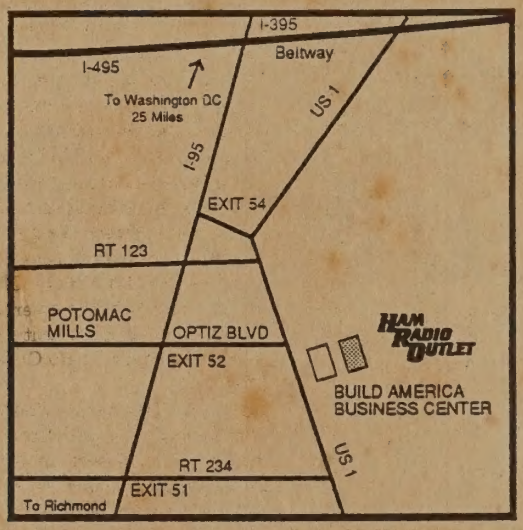

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EDITORIAL

President's Corner

By Phil Russo - N3GDD
President, Foundation for Amateur Radio

Happy New Year, and I sincerely hope this finds all in good cheer.

Over Thanksgiving I had the occasion to make the jaunt north to the Mecca of Amateur Radio in the U.S., W1AW.

With uncertain expectations and my nephew on board for navigational aid, off we went. The station operator, Jeff, was very gracious in rolling out the red carpet and answering questions. The place is beautiful!!!!

For some reason I was under the impression that the physical building had been enlarged, not the case, but one look inside and one realizes how well they had stretched the funds available. When I say state of the art, BELIEVE IT!!!! A commboard that resembles something out of a major studio, and the equipment that puts out the practice code on all the various bands is not only all the same for a change but it appeared to have an amplifier for each rig. All on one board behind the operators chair, the board by the way was approximately 7ft tall and about 12ft wide behind sliding glass doors. Very easy to maintain was Jeff's most often used comment. Also, there were 5 soundproof booths for guest operators complete with W1AW QSL cards, call books, log books and the latest in HF equipment. The whole building is now carpeted, the chairs kind of surround you. Sorry but I lost count of all the antennas, but the 5 towers would make you drool. Thank You, Jeff WA1MBK, for sharing your time with us. It was much appreciated.

For those who finds themselves with the opportunity to make this trek in the future, do it!! This is an incredible experience.

With that I'll sign for now. May all have as prosperous a new year as you could hope for.

Phil, N3GDD

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Coming Events

1991

Jan 19–21	ARRL VHF Sweepstakes
Jan 20	Richmond Frostfest (See page 30)
Feb 24	Vienna Winterfest (See page 28)
Mar 3	York Springfest, York Pennsylvania
Mar 24 *	Timonium Hamfest
Apr 6 - 7	Greater Baltimore Hamboree & Computerfest
Apr 21	Marconi Day
May 18 *	Roanoke Valley ARC Hamfest
May 19	Wheeling, WV Hamfest/Computer Fair, Sponsored by Triple States
May 26	Memorial Day Hamfest, Howard County Fairgrounds
Jun 2 *	Manassas Hamfest
Jun 16 *	Frederick Hamfest
Jun 29 *	Bluefield WVA Hamfest
June 29 *	Jackson's Mill WVA ARRL State Convention
Jul 28	BRATS Maryland Hamfest
Aug 4 *	Winchester Hamfest, Berryville, VA
Sep 8 *	Gaithersburg Hamfest
Sep 22	ARRL Roanoke Division Convention, Virginia Beach, VA
Sep 31 *	Shelby, NC Hamfest
Oct 13 *	Howard County CARA Hamfest

* Dates marked with an asterisk (*) are NOT confirmed. The dates shown are best guesses based on the schedules of previous years. Hamfest sponsors are urged to advise Auto-Call as soon as 1991 dates have been established. Thanks to the SouthEastern Repeater Association *Repeater Journal* for much of the Hamfest date information above.

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FCC HIGHLIGHTS

by Bill Grenfell W4GF

"Another alleged radio jammer has been silenced due to efforts of Amateur Radio Operators. On November 6 U.S. marshals and engineers from the FCC's Langhorne, PA field office seized radio equipment, belonging to Ernest Woods, 30, of Norristown, believed to have been used to interfere with Philadelphia-area 2-meter Amateur repeaters, as well as frequencies of the Pennsylvania State Police, the Norristown fire department, and other public services agencies. Woods could face serious civil and criminal charges as a result. Woods was issued Novice class amateur license KA3WHZ in May 1990 and Technician license in August." In late June users of the Telford (PA) Area Repeater Association (TARA) began to experience "persistent and purposeful interference" to their 145.190 MHz repeater. Many incidents of interference to the repeater operation were reported and "By Sept 12 the FCC had stepped in, to act on complaints both from TARA and from the state police." Another search warrant was issued in early November and some of the equipment in operation at the time of the search was confiscated. At presstime, no charges had yet been filed against Woods. (The ARRL Letter, 11/29/90).

In response to petitions by the ARRL as well as several individuals, the FCC has proposed changes to its Part 97 Rules for the Amateur Service. The Commission's Notice of Proposed Rule Making in Docket 90-561 was released Nov. 16. Here are the Highlights:

* The ARRL asked that the terms "telecommand" telemetry" and "space telemetry" be defined in the Rules; FCC agreed.The terms "tactical call sign" and "digipeater" will not be codified.
* ARRL sought an increase in the minimum number of club members necessary to apply for a club station license, from two to four. But the Commission noted that no new club station licenses have been issued for some 13 years and "we do not foresee that we will resume doing so, so the point is moot. The League continues to urge the Commission to resume the issuance of new club station licenses.
* FCC declined a request to amend its Rule that states an Amateur station must be independent of all other radio apparatus installed on a ship or aircraft. The League's argument in this case was that a regulation already is in place prohibiting an Amateur signal from interfering with other apparatus aboard.
* In the matter of prohibition of automatic control of Amateur stations when third party traffic is being handled, the League sought a rule revision to put the responsibility for the content of such traffic on the originating Amateur station. The Commission, however, maintained that traffic content is the responsibility of every station, including those who retransmit communications, and proposed no change.

In a related matter, ARRL sought a clarification of Section 97.109(d), to emphasize that a Commission representative may order an automatically controlled station to shut down because of improper operation or harmful interference only after the alleged offending station had been given the opportunity for a hearing. FCC denied this, saying that "the control operator must cease automatic control of the station upon notification by the Engineer in Charge that the station is transmitting improperly or causing interference to other stations, and the licensee is not entitled to a hearing before such notification."

* The FCC declined to amend its Rules to permit retransmissions of other services--NOAA weather and DOC propagation broadcasts - saying such transmissions are "routinely available over the air with inexpensive receivers."
* The FCC agreed to amend its Rule regarding compensation of club station operators, lowering the number of simultaneous bands on which bulletins and code practice must be transmitted from ten to six.

(Continued)

* A request to ease the FCC Rules regarding third party communications on behalf of someone holding an Amateur Radio license but not eligible to be a control operator of an FCC-licensed station was denied. The Commission said this had already been considered (in the most recent rule rewrite) and denied at that time.
* A request by an individual Amateur to require stations to identify at the beginning of communications through a repeater was not included in the proposals, but FCC asked for comments in the matter.
* FCC declined to entertain a change in its Rules to incorporate due-process procedures in cases involving "quiet hours," saying that it was unnecessary.
* In the area of Special Operations, FCC agreed to:

1.Amend its Rules to delete the condition that an auxiliary station can be automatically controlled only when it is part of a repeater system, so that Amateur operators can experiment with new system configurations that use auxiliary links;

2.Expand the permissible types of space telemetry transmissions as requested by the ARRL;

3.Make minor changes in wording, including changing "remote control" to "telecommand."

* The FCC once again refused to change its Rules banning 10 meter power amplifiers, saying the ban "makes our enforcement procedures more efficient and effective."
* A request that persons whose Amateur station or operator license has been revoked or suspended be allowed to qualify as a volunteer examiner after a 10-year period was turned down.

Interested parties may file comments on time are not contemplated, according to the FCC. (The ARRL LETTER, 11/29/90). or before Jan. 31, 1991; reply comments are due by March 4, 1991. Extensions of The following is the latest list of intruders in our HF bands which the ARRL has asked FCC's Treaty Branch to pursue with other countries as well as our own:

Intruders in our HF Bands:
1813-1820 kHz, A2A (beacon transmitters);
7008, F1(TTY idling and traffic)
14221, R7B/F1B (250/500 Hz shift TTY and Mux);
14312, F1 (high speed digital keying, 1kHz shift);
18090, F1 (140 baud encrypted, 500 Hz shift);
18095.5, F1 (idling signal, 2kHz shift);
8125, F1 (50baud, 400Hz shift, some encryption);
18138.5, F1(140baud,encrypted).

(The ARRL LETTER 11/29/90).

The ARRL has filed an "Application for Review" with the FCC, requesting the commissioners overrule a staff decision. "The League seeks more time to respond to proposals for new Morse code testing procedures for disabled persons. "This is the latest episode in PR Docket 90-356, which began with a public announcement by the FCC in early August and culminated in the FCC's denial, on Sept 28, of the League's request for more time -- until Nov.15--to comment." Because of the significance of the proposal to the Amateur Radio Service the application said, the League felt additional comment time was a necessity, not a luxury."

(The ARRL LETTER 11/02/90).

"Both new Amateur Radio licensees and license up-grades showed a healthy increase in the past year. "FCC statistics for the fiscal year ended Oct. 1 have been released (statistics actually were compiled through Sept. 25). "The total number of amateur operator licensees grew 6.1 percent, from 464,800 to 493,292. "Here is the breakdown by license class:

Extra	52,847
Advanced	104,365
General	119,158
Technician	125,217
Novice	91,705
Total	493,292

(The ARRL LETTER 11/02/90).

American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

ARRL EXECUTIVE COMMITTEE MEETS. FCC matters dominated the agenda for the Nov. 10-11 meeting of the ARRL Executive Committee in Hilton Head, SC.

Executive Vice President David Sumner, K1ZZ, reported on WARC-92 preparations, particularly the League's participation in the FCC Industry Advisory Committee for WARC-92 and the strategy to be followed in responding to the Second Notice of Inquiry in the WARC preparatory proceeding, General Docket 89-554. Also noted was the League's involvement in CCIR preparation (see the Nov. 2 issue of The ARRL Letter).

Discussions with the Commission on the possible resumption of club-station licensing will commence, based on a draft outline reviewed at the meeting. Under the proposal, the League would assist in processing club-station applications on a volunteer, no-fee basis.

The Committee approved the filing of comments in a Notice of Inquiry, General Docket 90-357, into the establishment and regulation of new digital audio radio services. The League's comments will note that the issue of allocations for such services is being considered in the context of WARC preparations, and that separate consideration may be premature.

The Committee also instructed staff to seek from the FCC a blanket extension of the expiration date of Certificates of Successful Completion of Examination (CSCE) issued to members of the military engaged in Operation Desert Shield.

The status of a number of pending matters was reviewed, including the League's court challenge of the 220-MHz reallocation, which goes before the U.S. Court of Appeals for the District of Columbia Circuit on Nov. 16. The minutes of the meeting will appear in January QST.

W1AW SCHEDULES 30-METER TESTS. W1AW conducted tests on the 30-meter band from Nov 26 to Dec 3. Code practice, bulletins, and RTTY bulletins were transmitted at the times scheduled on other bands, on 10109 kHz (CW) and 10136 kHz (RTTY). This was a one week test only, and reception reports were solicited by station manager W6LC.

ICOM America has presented the station with a new IC-781, which resides at one of the visiting operator positions. Also available for use by visitors are HF transceivers from Ten-Tec, ICOM, and Kenwood.

W1AW is considering the possibility of changing CW frequencies on 21 and 28 MHz. The station has operated near 21.080 and 28,080 for many years but AMTOR activity on these bands has grown to the point where interference from W1AW CW transmissions is a problem. New Frequencies proposed are 21.0675 and 28.0675. The change would be made on or before Feb. 1, 1991; FCC regulations require that the changes be published 30 days in advance.

PANEL ACTS ON DXCC LIST. The ARRL Awards Committee has accepted the following recommendations of the DX Advisory Committee on the DXCC status of Germany and Yemen. In the case of the former, the German Democratic Republic is deleted from the DXCC list as of Oct. 3, 1990 (when the GDR was absorbed into the Federal Republic of Germany). Contacts with GDR stations (Y2-Y9) after Oct. 3, and contacts with FRG stations (DA-DL) after Sept. 17, 1973, will be credited as FRG.

As for Yemen, the DXCC recommended deletion of both the former People's Democratic Republic of Yemen (7O) and the former Yemen Arab Republic (4W) as of May 22, 1990. In their place, a new country, Yemen (7O) is added to the list.

Do not submit Yemen QSLs for DXCC credit until after March 1, 1991.

SATELLITE, SAREX GOINGS-ON.

ARRL education activities coordinator Rosalie White, WA1STO, attended the annual meeting of AMSAT-North America held Oct. 20 in Houston. White met with incoming AMSAT president Doug Loughmiller, KO5I, with Rich Ensign, N8IWJ (AMSAT education officer), and with members of the Johnson Space Center Amateur Radio Club (who coordinate Shuttle Amateur Radio Experiment matters).

The ARRL SAREX Working Group continues, according to White, to look for more opportunities for Amateur Radio in space. Aside from the STS-35 and STS-37 SAREX flights, the working group now is studying possibilities for future Amateur Radio operations, perhaps from a space station.

NASA is interested in such proposals, according to White, and has just relocated the SAREX program under its Educational Affairs Office. It formerly came under the NASA Public Affairs Office.

AMSAT officers elected at the meeting for the upcoming year are: Doug Loughmiller, KO5I, president and general manager; John Champa, K8OCL, executive vice president; Ray Soifer, W2RS, senior VP; Drew Deskur, KA1M, VP special projects; Jan King, W3GEY, VP engineering; Courtney Duncan, N5BF, VP operations; Jeff Wallach, N5ITU, VP field operations; Andy MacAllister, WA5ZIB, VP user services; Bill Tynan, W3XO, VP manned space operations; Art Feller, KB4ZJ, treasurer; and Martha Saragovitz, secretary.

And, finally, SAREX flight STS-37, scheduled for some time next year, now is 100 percent Amateur Radio! Crew member Jerry Ross passed his Novice exam Nov. 10 at the Houston Com-Vention.

SOVIETS SCHEDULE LAUNCH.

The first of a new generation of Soviet Amateur Radio satellites is now scheduled for launch Nov. 21, according to AMSAT-Germany. Radio-M1/Rudak-2 (also called RS-14) includes, according to Oscar Satellite Report, "some interesting hardware," some of it constructed by AMSAT-DL, that will provide two Mode B (435 up to 145 MHz down) SSB/CW transponders, as well as a Mode B digital transponder for packet radio.

The 10-watt output of the satellite should allow good reception of the downlink with a dipole, according to OSR. Here are the satellite's frequencies:

Linear transponder No. 1: Beacons on 145.822 (CW) and 145.952 (1100 bps PSK); downlink on 145.852-145.932, inverted; uplink on 435.102-435.022.

Linear transponder No. 2: Beacons on 145.948 (CW) and 145.838 (PSK); downlink on 145.866-145.946; uplink on 435.123-435.043.

Digital transponder (AX.25 packet): Downlink on 145.983 (1200 bps BPSK); uplink on 435.016 (FSK)

ARRL VEC TARGETS NOVICES.

A new pamphlet describing the ARRL Volunteer Examiner Coordinator program is being mailed to all new Novice class licensees. New Novices have not necessarily had any exposure to either the League or the VEC program. The pamphlet describes the licensing upgrading process, how volunteer examinations are conducted, and notes the many services available from the ARRL.

Since July 21, 1984, the ARRL VEC has accredited more than 13,000 examiners, who have conducted more than 11,500 test sessions for some 140,000 people. As a result, 77,500 upgrades have been submitted to FCC.

On a related note, the FCC has announced that the maximum allowable

reimbursement fee for a volunteer examination will be $5.27, starting Jan. 1, 1991. The ARRL VEC maximum will be set at that time at $5.25. There is no fee for the Novice examination.

W1AW TO SHIFT 15 AND 10 M CW FREQUENCIES. Effective January 2, 1991, W1AW will transmit its code practice and CW bulletins on new frequencies in the 15 and 10 meter bands. The change is being made to avoid interference between W1AW and AMTOR operations, which have become very popular near the old frequencies that had been used by W1AW for many years. The new frequencies will be 21. 0675 and 28.0675 MHz, 10 kHz lower than the old frequencies.

NEWS FROM CANADA.

* The Canadian Radio Relay League and the Canadian Amateur Radio Federation met Oct. 14 to discuss a merger of the two groups. A draft constitution for a new, single Canadian organization was updated based on comments from boards of directors of the two bodies. The merger committee plans another meeting early in December, and tentative plans were made for the CRRL board and the CARF annual general meeting to be held "in a common location" in June, 1991.

* It may take a massive letter-writing campaign to Canada's Department of Commerce to get the new "Client Procedures Circular" rescinded, according to CRRL. The CPC, which will be published in its entirety in the December issue of QST Canada, is subtitled "Municipal Consultation on Non-Broadcast Antennas," and is characterized by CRRL as "so poorly crafted that it lends itself to all kinds of interpretations and arbitrary decisions."

* Regarding new (as of Oct.1) Canadian regulations based on the bandwidth of transmitted signals, that 1200-baud packet operation falls within the 6-kHz maximum bandwidth allowed on 160-12 meters (except 30 meters). CRRL and CARF ask that Amateurs NOT use 1200-baud packet on the HF bands "until the CRRL and CARF form a band planning committee and the matter has been studies."

CONFERENCE HONORS ARMSTRONG. Edwin Howard Armstrong, "the Major," would have been 100 years old this year. The centennial of his birth has spawned a number of projects and retrospectives, the latest of which was a conference held Nov. 16 at Columbia University, his alma mater and where for many years he was a faculty member.

Attending the conference, held at the Columbia Center for Telecommunications and Information Studies in New York City, was ARRL Executive Vice President David Sumner, K1ZZ. Sumner participated in discussions of papers presented at the conference, particularly those concerned with the commercial development of FM (which Armstrong invented) in the U.S.

Major Armstrong was widely regarded as having strong roots in Amateur Radio. Although his experimentation as a "ham" predated licensing. Armstrong helped build and operate the Radio Club of America station 1BCG that was the first to be heard by the League's Paul Godley at Ardrossan, Scotland, in 1921.

It was just this sort of unstructured, "amateur" experimentation that Armstrong carried over into his many technical breakthroughs, which included invention of the regenerative circuit (1912); the superheterodyne (1917); and wide band FM (1933).

Also present at the conference was Thomas Lewis of Skidmore College, who is helping produce the film "Empire of the Air," PBS documentary about the early days of broadcasting that is scheduled for airing next fall. Lewis is pictured with Bruce Kelley, W2ICE, in the Oct. 19 issue of The ARRL Letter.

CW OFFERS HOPE TO DISABLED.

People with severe physical disabilities are now able to communicate using a Morse code-based system developed at the State University of New York at Buffalo (UB). People unable to speak or to move

their limbs can communicate with an Apple computer by sending CW to the computer -- by moving their heads from side to side, closing switches--according to UB Today, a publication of the University.

Developed by S. David Farr, associate dean of the school's graduate school of education and director of its Learning Technologies Laboratories, the system's CW input to the computer replaces the computer mouse. Farr initiated the project, called Morse Writer, in 1985, for Matthew Stein, now 13, who has had cerebral palsy since birth and is a severely-involved paraplegic, according to UB Today.

Matthew uses the system in two ways. "Message mode" is a form of shorthand in which, for example, sending the letter"z" produces "thank you" and "o" means "hello." Used in free-typing mode the Apple MacIntosh becomes a word processor. Matthew's system can display type on the computer screen, produce printouts, and speak via a voice synthesizer.

Many people have seen the physicist Stephen Hawking, the author of "A Brief History of Time," use a similar device. Hawking, who suffers from Lou Gehrig's disease and is unable to speak, types commands into a computer, which activates a voice synthesizer.

Closer to home was the late Cliff Corne, K9EAB, who for years was confined to an iron lung and sent CW using his mouth to operate a keyer paddle. This was in the 1960s, before the microcomputer.

Today, sophisticated hams using computers and digital voice keyers are able to operate on voice modes without ever speaking a word.

HARVARD CLUB HOSTS SOVIETS. Last May nine members of the Harvard Wireless Club (W1AF) travelled 6,000 miles to Leningrad and operated for 10 days from club stations UZ1AWT and UZ1AWX. Working alongside Soviet operators under the call sign US1A, the group made some 21,000 contacts and many new Amateur Radio friends. The event was hosted by the Leningrad Institute of Aircraft Instrumentation.

Immediately upon his return W1AF trustee Mike Manafo, K3UOC, resumed planning for a reciprocal visit by the Soviet club members. "An event like this is not to be taken lightly," Manafo said. "It was six months of very hard work. "This also was probably the most significant happening of my life," he added.

In mid-October seven Leningraders arrived in Boston for Part Two of this exchange. Although the long-awaited U.S.-USSR reciprocal operating agreement failed to materialize, the Soviets were able to participate in Amateur Radio at W1AF under third-party rules.

On Oct. 23 the Soviet club members visited ARRL Headquarters, with hosts K3UOC and NZ1W. Following a tour of the lab, the QSL Bureau ("Box 88, Newington"), and W1AW ("it's a pileup!" one of the Soviets exclaimed), the group exchanged mementos with ARRL Executive Vice President Dave Sumner, K1ZZ, and W1AW manager Eddy Pollock, W6LC.

Back in Cambridge, five of the Soviet club members battled the language barrier to become U.S.-licensed hams. They were: Dmitry Samrin, UA1CFL (Novice); Vladimir Alexandrov, UA1AIR (Novice); Sergei Hrapenok, UA1ABR (Technician); Victor Stroganov, UV1AA (Advanced).

The Leningraders' U.S. visit coincided with a rebuilding program at the HWC station--which now includes new HF gear and antennas donated by several Harvard alumni--and with the CQ Worldwide SSB DX Contest. The Soviets joined eight U.S. operators for a multi-single contest entry.

"The computerized operation, including both contest software and the Packet Cluster spotting network, was pretty daunting for the Russians," Manafo said. (It's daunting for anybody using it for the first time--ed). "But they loved it," Manafo said. The W1AF operation netted three-and-a-half million points.

¤ ¤ ¤

PUBLIC SERVICE REPORT

Hank Black - N3ESR
(301) 340-8595

"Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.09 MHz, called by telephone, or mailed electronically by modem on arrangement, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month."

RED CROSS AMATEUR RADIO STATION

The Mt. Vernon ARC has completed installing a two meter station at the South Fairfax Red Cross Branch. Located in the Route 1 corridor it supports the emergency communication functions of the Red Cross in Fairfax County. Along with the VHF equipment, which was a grant from the Eastman Kodak Company, plans are ongoing for the installation of packet and HF. Needing just a TNC hopes are that this aspect will be in operation soon.

This is supported by the Mt. Vernon ARC under the direction of the Fairfax EC. This is a continuing club project that helps the community.

Steve Schneider, WB4EEA AEC

PUBLIC SERVICE HONOR ROLL REPORT VIRGINIA SECTION
October 1990

All Stations Single Operator Status Unless Noted

CATEGORIE	1	2	3	4	5	6	7	8	9	Total
CALL										
N4EXQ	0	30	0	12	12	41	0	0	20	115
N4GHI	30	30	12	12	12	11	0	5	0	112
W4JLS	30	30	0	12	12	13	0	5	0	102
WB4KSG	30	30	12	12	12	0	0	5	0	101
K4MTX	30	30	3	12	12	5	0	0	0	92
KJ4EK	30	25	0	9	12	1	0	5	5	87
KC4OJM	0	26	0	9	12	35	0	0	0	82
WB4ZTR	15	26	0	12	12	7	0	5	5	82
AA4AT	30	8	12	3	12	7	0	0	5	77
K4BGZ	0	30	0	12	12	11	0	0	5	70
W4TZC	30	8	12	0	12	2	0	5	0	69
NW3K	3	30	0	12	12	0	0	5	5	67
WA4DTE	0	30	0	12	12	7	0	5	0	66
N4KSO	30	7	12	0	3	0	0	5	5	62
KB4OPR	0	30	0	3	12	2	0	5	10	62
KB4CAU	0	30	0	12	12	6	0	0	0	60
WB4ZNB	0	30	0	12	12	0	0	5	0	59
KC4JGC/T	0	29	0	12	0	2	0	0	0	43
WD4MIS	6	1	12	0	12	2	0	0	0	33
WA4TVS	0	7	0	12	0	1	0	5	5	30
N4FNT	0	22	0	0	0	0	0	0	0	22
KC4GIA	0	6	0	9	0	0	0	0	5	20
WA1VRL	0	2	0	0	0	0	0	5	0	7

Public Service Report - Continued

Categories:

1. Checking into CW nets, 1 point each (max. 30)
2. Checking into Phone/RTTY nets, 1 point each (max. 30)
3. NCS CW nets, 3 points each (max. 12)
4. NCS Phone/RTTY nets, 3 points each (max. 12)
5. Performing assigned NTS liaison, 3 points each (max. 12)
6. Delivering a formal message to a 3rd party, 1 point each (no max.)
7. Handling an emergency message, 5 points each (no max.)
8. Serving as Net Manager or Emergency Coordinator, 5 points (max. 5)
9. Participating in a public service event, 5 points each (no max.)

A Public Service Honor Roll certificate is available to those who obtain 60 or more points per month (40 or more for Novice/Technician) for 12 consecutive months, or for 18 out of 24 months. Contact WB4ZTR @ WB4D for additional information.

REMINDER TO VIRGINIA DECs AND ECs

Just a reminder to Virginia ECs that all (that means ALL) 1990 EC Annual Reports are due to me within the next 60 days! Submission of this Annual Report is required for EC Appointment Renewal, so DECs please "lend a pleasant reminder" to your ECs. I have received reports from the following ECs:

KC4DY - Roanoke
W4PVA - Prince William County
W4CFV - Wise County
N4LMG - Pittsylvania County
KB4OPR - Gloucester County

Steven Czaikowski, WB4ZTR, SEC Virginia

PUBLIC SERVICE CALENDAR

Feb. 2 National Capital ARES Council Meeting
10 a.m., location to be announced.
Contact Hank Black, N3ESR (301) 340-8595 or
Harry Jones, N4CWP (703) 204-1781

Training Classes

Robert Armstrong, WA4SQL
44 South French Street, Alexandria, VA 22304
(703) 751-2294

Upgrade Classes, Alexandria, VA, starting 28 January. Sponsored by Mt. Vernon ARC and Alexandria Radio Club. The class will present an upgrade license course for General through Extra class license. High speed CW will be emphasized. Classes will be held in Alexandria on Monady evenings from 7:30 - 9:30 and will continue for about 16 week. There is no charge for the class, however students wil be expected to suply their own ARRL license manual. For information and location, contact John Forrest - WZ4A (703) 971-3905 or Harry Jones - N4CWP (703) 204-1781.

Novice Classes, Severn, Maryland, Probably starting in January Sponsored by Maryland Mobileers. For information call Bill Dillon, WA3SCW (@ WB3V in Packet)

Novice Classes, starting 2 February, Davidsonville, MD. Sponsored by Anne Arundel Radio Club. Classes will be held Saturdays from 9:00 a.m. to Noon and will continue for 12 weeks. Davidsonville Family Recreation Center (about 6 miles SW of Annapolis). For informatiion and registration call Holly Bevin - N3BMB at (301) 923-0229 (Crownsville) or Tony Young - WA3YLO at (301) 262-1917 (Bowie).

General/Tech Classes, Laurel, Maryland, starting in February. Sponsored by Laurel Amateur Radio Club. For information call John - W3GFS at (301) 490-5286 or Pud - W3DQI at (301) 498-6293.

Novice Training Classes, Baltimore, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Friday evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free; Materials (which you can keep) consist of a book and tape and cost $19.90. For registration or information, contact Jeff Salamon, N3FHT at (301) 484-1362

Novice and Upgrade Classes, Lexington Park, MD. Sponsored by St. Mary's County Amateur Radio Assn. For further information contact WD8OYG or call (301) 862-2214.

Novice Classes, Saudi Arabia. Sponsored by the New Bern Amateur Radio Club of NC. Classes will be conducted under the direction of U.S. Marine Mark Bitterlich, WA3JPY, in an effort to "relieve the boredom and inactivity of those serving in 'the sand pile.'" The club's next stop is to get accreditation for a volunteer examiner team over there.

See next page for general information on training contacts at various clubs

Please keep the Training Chairman advised of any changes
in the names and telephone numbers of the contacts for club training programs.
Please list training programs far enough in advance for effective publicity.

Training Program - Continued

GENERAL INFORMATION

Club	Contact
Alexandria Radio Club	Harry Jones - N4CWP (703) 204-1781
Anne Arundel	Tony Young - WA3YLO (301) 262-1917
Antietam Radio Assn.	Mike Vaia - WB8VBW (301) 797-1573
Arlington ARC	Fred Bardsley - WD4DHW (703) 533-0372
Baltimore ARC	Phone 1-800-HAM TALK
BRATS	Jeff Salamon - N3FHT (301) 484-1362
Chaverim, Inc.	Bob Teitel - W3IDT (301) 654-3484
Fauquier ARC	Bill Mills - KC5PF (703) 937-4090 (H), 818-3955 (O)
Frederick ARC	Steve Bauman - W3FOA (301) 662-4552
Laurel ARC	John Albertine - W3GFX (301) 490-5286
MADRAS	Larry Ziecheck - N3GKZ (301) 530-8646
Montgomery ARC	Ken Nichols - KA3KGL (301) 977-5405
Mount Vernon ARC	John Forrest - WZ4A (703) 971-3905
NASA/Goddard ARC	Vikki Gigante -KA3PVS (301) 249-2609
Pentagon ARC	David Boyd - K9MX (202) 697-0630
Rock Creek ARA	Walt Ramsey - AK3B (301) 949-3954
Shenandoah Valley ARC	Guy Black - W4PSJ (703) 722-4952
Southern Maryland ARC	Vic Curtis - WA3YUV (301) 888-1388
Sterling Park	Art Nevins - WA4NTP (703) 437-9382
Tri County ARC	Al Sines - WA3QGA, Box 710, College Park 20740
Vienna Wireless	Paul Wilkins - AB4CY (703) 560-2779
Washington Adventists	Henry Miller - W3BWN (301) 474-7376
Woodbridge Wireless	Loyd Davis - K8EI (703) 360-0248

The Good Old Days

By Paul Trice, W8QHS *

Of all the hams I've ever met,
I still am looking for one yet
Who doesn't always heave a sigh
When someone mentions "days gone by."

"Why, I remember ten years back,"
Someone will say, just reminiscing;
And then proceed to tell us of
The swell things we've been missing.

How back in nineteen twenty-eight
With just an "old two ten"
He worked most everything he heard
And didn't think much of it then.

And now he raves and tears his hair
Because with one full kilowatt,
He doesn't work all that DX
He really thinks that he should ought.

He moans about the long "CQs"
The crowded bands, the so-called lid;
I sometimes wonder if he thinks
Way back, when he was just a kid.

I wish I had a record of
His peanut-whistle "way back when"
So I could play it back for him
To show him how he sounded then.

I really like to hear old hams,
Describe the days of long ago;
But I can't really figure out
Why in this day they feel so low.

I suppose it's human nature, tho,
Not mine to question why
They groan about the present when
They talk of "days gone by."

Submitted by W3EPR
* (W8QHS is now a Silent Key)

FOUNDATION FOR AMATEUR RADIO

Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS
1991

EXAMS

IMPORTANT NOTE: If you now have a Technician class license which was acquired prior to March 21, 1987, have a copy of it available when you decide to upgrade.

Jan 5 GWU/Dept of State (Washington, DC) (ARRL VEC) Walk-in
Contact: Derrill Rohlfs, W3WOX (301) 423-0179

Chesapeake DX Association (Chesapeake, VA) (W5YI VEC)
Contact Bill Verebely, KC4YX (804) 424-4764

Jan 12 Anne Arundel ARC (LARC-VEC) Pre-regisstration requested
Contact Nancy or Dean Alley, NT3Z/NS3V (301) 761-7115

Jan 19 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Jan 20 Richmond Frostfest (Richmond, VA) Pre-registration Required
Contact: Al Bailey (804) 233-6461

Jan 27 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration
Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)

Feb 2 Middletown VE Teaam (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241

Feb 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Hampton Roads Radio Association (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611

Mar 9 South Peninsula ARC (ARRL VEC)
Contact: Ed Brummer, W4RTZ (804) 898-8031

PROS (Salisbury, MD) (Laurel VEC) Walk-in
Contact: Dave Bridge, KB3MT (301) 436-8360

Mar 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Apr 6 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC)
Contact: Andrew Swanson, WJ4X (804) 253-2811

(Continued)

Volunteer Examiner Cooperative - Continued

Apr 20	Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
Apr 28	Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)
May 4	Portsmouth ARC (Portsmouth, VA) (ARRL VEC) Contact: Art Thiemens, AA4AT (804) 484-2857
	Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins Contact: Walt Quitter, NC4B (703) 869-5241
May 18	Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
	Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC) Contact: Bill Runyon, N4BDH (804) 487-8611
Jun 1	Virginia Beach ARC (Virginia Beach, VA) (ARRL VEC) Contact: Ed Robison, WD4ROY (804) 468-0866
Jun 8	PROS (Salisbury, MD) (Laurel VEC) Walk-in Contact: Dave Bridge, KB3MT (301) 436-8360
Jun 15	Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
Jul 13	Chesapeake DX Assn. (Chesapeake, VA) (W5YI VEC) Contact: Bill Verebely, KC4YX (804) 424-4764

NOTE: All examinations require that you submit:
Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.
Check for appropriate examination fee.
Fees of individual VEC may vary.
ARRL Exam fee is $5.25
W5YI Exam fee is $5.25
Laurel Exams are still free.
Mountain VEC Novice Exams free
All other Mountain VEC Exams $2.00

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

While most examinations are offered on a walk-in basis, pre-registration is desirable in all cases.

Certificates of successful completion for theory tests are not always accepted. Check with the contact person for the examination you wish to take.

This schedule of examinations appears each month in Auto-Call Magazine

VIRGINIA SECTION
TRAFFIC TRAINING DOCUMENT

VIRGINIA SECTION TRAFFIC NETS

NET NAME (Abbreviation)	MODE	FREQUENCY	TIME	Net Mgr.
Virginia Traffic Net (VTN)	Phone	3.907 MHz	1:00 PM	W4JLS
Receives Liaisons From:	VLN and ARES Nets			
Sends Liaisons To:	4RN			
Virginia Sideband Net (VSBN)	Phone	3.947 MHz	6:00 PM	KI4BR
Receives Liaisons From:	4RN and ARES Nets			
Sends Liaisons To:	VSN			
Virginia Slow Net (VSN)	CW	3.680 MHz	6:30 PM	W4TZC
Receives Liaisons From:	VSBN and ARES Nets			
Sends Liaisons To:	VN			
Virginia Net Early (VN)	CW	3.680 MHz	7:00 PM	N4GHI
Receives Liaisons From:	VSN and ARES Nets			
Sends Liaisons To:	4RN			
Virginia Net Late (VN)	CW	3.680 MHz	10:00 PM	WB4KSG
Receives Liaisons From:	4RN and ARES Nets			
Sends Liaisons To:	VLN			
Virginia Late Net (VLN)	Phone	3.947 MHz	10:15 PM	NW3K
Receives Liaisons From:	VN and ARES Nets			
Sends Liaisons To:	VTN			
Shenandoah Valley Emergency Net (SVEN)	FM/2-mtr	146.82 MHz	7:15 PM	KB4MUJ
Receives Liaisons From:	Local ARES area			
Sends Liaisons To:	VTN, VSBN, VSN, VN, VLN			
South Tidewater ARES Net (STARES)	FM/2-mtr	146.97 MHz	9:00 PM	KJ4VT
Receives Liaisons From:	Local ARES area			
Sends Liaisons To:	VTN, VSBN, VSN, VN, VLN			
Northern Virginia Traffic Net (NVTN)	FM/2-mtr	147.30 MHz	7:30 PM	NJ3H
Receives Liaisons From:	Local ARES area			
Sends Liaisons To:	VTN, VSBN, VSN, VN, VLN			

The Shenandoah Valley Emergency Net (SVEN), the South Tidewater ARES Net (STARES) and the Northern Virginia Traffic Net (NVTN) are Local NTS nets that meet nightly and send liaisons to each of the Section HF nets, and as such, are recognized as NTS nets.

In addition, the Virginia Fone Net (VFN), although not a NTS net, meets daily at 3.947 MHz at 4:00 PM and at 7:30 PM. The VFN serves a very useful purpose in that its regular members are from throughout the Section (and elsewhere) and probably can handle traffic into many areas of the state.

the EEB *Hamgram*

HAM & SWL NEWSLETTER

The HAMGRAM is a free service from EEB to all subscribers (Want to subscribe? Just fill in the subscription blank) and is intended to keep you, our customers and readers, informed about new products, special sales, close-out items, club & VEC information, and other news of interest.

You'll see it here before you see it in the big four monthly magazines. Why? Because we don't have ninety day lead times before publication.

We want your inputs: How can we serve you better? Is there a special product you would like to see at EEB? Please use the comment blank in this issue to reply.

GSA CONTRACT

EEB is presently negotiating a contract with GSA. This particular contract involves many popular amateur radio products.

Amateur radio equipment gives our government more bang for the buck than most specially designed equipment. It is a well known fact that many pieces of amateur equipment function as well, and some better, than high priced specially designed equipment. The cost savings advantages for purchasing amateur equipment are real and very important in these days of tight budgets.

All items on this contract will be negotiated once per year. Therefore the procurement cycle is reduced in time span, reducing delays, and making fast availability of products.

If you work for the U.S. Government please keep EEB's new GSA contract in mind.

Wanted: Trade-ins

Trader Scott says he needs late model used ham gear and is ready for some **real wheeling and dealing.**

Now is the time to upgrade to that new state of the art rig.

Also, Scott's consignment sales rack is quite low on stock, so dust off that equipment you no longer need and bring it over and let Scott turn it into cash for you

HAMGRAM Drawing Entry and Subscription Blank

Name _____

Address _____

City _____

State/ZIP _____

Phone _____

Callsign _____

Directions to EEB

from the Beltway: Exit 11B Tysons Corner – go 9 lights and one block – turn right on Mill Street

from Route 66: Exit 17 Vienna – turn left – go 1 mile to Maple Street – turn right – go 2 lights and one block – turn left on Mill Street

EEB is a light green warehouse about 1/4 mile down Mill Street on the right. Look for a 50' tower on the front.

Store Hours -----
9 to 5 Mon – Fri
'til 9 on Thur
10 to 4 Sat
Closed Sunday

Phones -----
(703)938-3350
(800)368-3270

Electronic Equipment Bank
323 Mill Street, NE
Vienna, VA 22180

SRAM--025
[Soviet Radio Amateur Movement]
Edited by Dexter Anderson, W4KM

[Following are summary translations from the Soviet Amateur Press]
[Comments in square brackets are by translator]

[from the September 1990 issue of RADIO magazine]

"CALL-SIGNS OF PERESTROYKA"
by Stanislav Aslezov
"Sovetskiy Patriot" correspondent for the Byelorussian SSR

[Introduction]

The discussions leading up to the All-Union DOSAAF Conference [originally scheduled for December 1990 but recently postponed] basically concentrate on negative aspects. And suddenly we receive positive material from Stanislav Aslezov in Minsk. "Against the background of general decline, confusion, and vacillation," he writes in an accompanying note, "the sport-technical club in the Grodno 'Radio Set' Plant became a ray of light in the kingdom of darkness. I admit I wouldn't have believed it if I hadn't seen it with my own eyes..."

[Article proper]

What's a snowdrop? Many would say a spring flower and they'd be wrong. In sport that's what they call sportsmen and trainers hidden in the staffs of enterprises as workers or office-workers. That's how it was at the "Radio Set" plant before Al'bert Matveyevich Iokello became chief of the club. He got the club legalized six years ago, a year before perestroyka began.

The plant produces cable television systems and "Selena-223" and "Selena-224" receivers. The plant director considers amateurs excellent production workers and supports the sport-technical club.

The problem of getting radio parts was solved at the plant without any harm to production. Previously, all sub-standard goods were sent to the press [for destruction] and all written-off equipment to the scrap heap. They started to transfer sub-standard goods to the amateurs and "do-it-yourself" stores and did the same with control and measuring equipment that had been written off.

Club station UC1IWR is the holy of holies for beginners. Dima Poluden', UC2IBM, an operator at UC1IWR, plans to become a worker at "Radio Set."

"RIGHT TO [BE ON] THE AIRWAVES" ["PRAVO NA EFIR"]
by V. Shevchenko, Chief of the Collective Radio Station [UB4LXO]
of the Boarding School for Blind Children Named After V. G. Korolenko

Donetsk has long been known for its positive attitude toward amateur radio, so it's probably no coincidence that the first Conference of Sightless Radio Amateurs of the Ukraine took place in this city.

It took a year and a half, but the conference finally took place, thanks to the energy, persistence, and patience of the organizing committee, consisting of L. I. Nagornyy, UB5ISN, Director of the "Homeland" Palace of Culture of the Donetsk Central Administration of the Ukrainian Comradely Society of the Blind, and collective-station chiefs N. A. Prilipko (RB4IZO), and V. G. Boyko (RB4IZE).

Experience shows that sight invalids can participate in competitions at any level, from oblast' to international: Vladimir Rozhko, UB5LBW, is the winner of the CQ WW 7 MHz competitions, and collective station RB4IZO took sixth place in the on-site/off-site championship of the USSR.

Sight invalids have as much right to get on the air as others, but this right is put into practice poorly. At the present time there are 87 sightless on-the-air amateurs in the Ukraine, against 50,000 such invalids in the Republic.

The Ukrainian Comradely Society of the Blind considered amateur radio dangerous for the blind (hot soldering iron, high voltage), but practice has shown that sight invalids know how to follow safety rules just as well as sighted people.

Unfortunately, the psychology of Chekhov's "Man in a Box" [a story about a petty local tyrant] is sometimes present when the telecommunication inspectorate decides whether to issue a call-sign to an unsighted amateur. Sergey Megelyk has repeatedly asked the telecommunication inspectorate to issue him a call-sign. For seven years he's been an operator at collective station UB4LXO of the Khar'kov Intermediate Boarding School for Blind Children Named After V. G. Korolenko. Sergey knows the physical aspects of a radio station, operates c.w., and conducts Morse code classes for young people. But at the inspectorate they ask "How can blind people engage in radio!?" They delayed his case for a year and a half, then lost his documents, then advised him to apply to a higher level.

Sometimes inspectorate workers refuse to issue an individual call-sign to a radio amateur living in a dormitory or studying at a boarding school because he doesn't have a separate room. Or they require him to keep a log in "sighted" writing. Do these comrades from the inspectorate know of letter No. 348-F of 7 December 1989 from the Federation of Radio Sport of the USSR on giving every possible encouragement to radio amateur invalids?

The conference established the Federation of Radiosport for Sight Invalids, and unanimously elected L. I. Nagornyy, UB5ISN, Chairman.

Particular attention needs to be focussed on boarding schools for blind children, where radiohooliganism is spreading rapidly. The Khar'kov school's experience shows that one teacher's initiative is enough, if supported by the school administration and the local radio club, to transform the radiohooligans into the backbone of a collective station. Igor' Mitrofanov, UB4LMA, Vladimir Iovbak, UB5LRF, Yevgeniy Vinogradchiy, UB4LLY, and Galina Sanina, UB4LNG, became part of the UB4LXO collective.

[from the newspaper KOMSOMOL'SKAYA PRAVDA of 1 June 1990]

"Life is a Flight -- The Story of a Guy Who Wanted to Become a Cosmonaut and Would Have Become One," by V. Snegirev

[Introduction by W4KM]

[Thanks to Joe Kasser, G3ZCZ, for calling to my attention this article about the death on 13 April 1990 of Valeriy Kondratko, UV3DQE, UA3-170-569, and to Alla Lake, who translated it for an article in the November 1990 AMSAT Journal. Kondratko was a cosmonaut-in-training and co-author of "CQ EARTH, This is Mir Calling" in the May 1990 issue of the AMSAT Journal.]

[Article proper]

We were sent a clipping from the "Anchorage Daily News." In a typically American style, correspondent Don Hunter describes the accident of an "AN-2" airplane over Chukotka. On board were participants in the international polar expedition "Big Ring" ["Bol'shoye kol'tso"] and thirty huskies.

According to the article, those aboard the single-engine biplane included an American woman, two Russian dog-handlers, a loader, and two pilots.

"We were sitting on a dog-sled, quieting the dogs," says Sue Stenaker. "When I realized we were losing altitude, I lay down flat on the dog-sled and grabbed hold of it hard. The guy who died didn't have anything to press up against. He flew from the right and landed in front of me... The pilots suffered less than the other people in the plane.

"Two hundred people from the settlement who had come to see the plane take off ran through the snow to the crash site. As they arrived, several terrified dogs jumped from the plane wreckage and ran off barking into the tundra.

"The Russian dog handler, whom everyone called Valera [nickname for Valeriy], showed no signs of life. There was no sign of a pulse. They started to give him CPR right on the snow... He had a large gash on his head which did not bleed and that was a bad sign.

"When the CPR proved unsuccessful, a guy drove Valera to Uelen in a snowmobile, but the local physicians weren't able to revive him either."

This happend on 13 April near Uelen. The "Russian dog-handler" was engineer Valeriy Kondratko of the Flight Control Center. The day before, Valera had crossed 300 kilometers of Chukotskiy tundra with the expedition. He had taken part in all of the polar expeditions organized by "Komsomol'skaya Pravda" from 1982 on. He was a member of the Ski Trek expedition and served as base radio operator for the Soviet-Canadian Trans-Arctic expedition.

While all of his friends knew of Valera's dream of becoming a cosmonaut, most did not realize how much effort he had put into pursuing that goal.

In 1975, after military service, Valera came to Moscow to seek treatment for his nearsightedness. He enrolled in the Moscow Aviation Institute (MAI). During his fifth year at MAI he was admitted for surgery at the Federov Clinic and left with one hundred percent vision.

Valera then applied to Dr. Smitriy I. Shparo, UA3AJH, chief of the polar expeditions sponsored by "Komsomol'skaya Pravda" newspaper but Shparo was unimpressed by his experience.

During his final winter vacation at the MAI, Valera went on a trip to a tourist camp in Karelia, loaded up a heavy backpack, and left on a seven-day camping trip. Upon his return, Valera went to Viktor Blagov, Deputy Chief of Flight Operations at the Flight Control Center near Moscow and asked for a job. He said flat out that he wanted to be a cosmonaut. Blagov sized up his visitor and replied, "Well, what do you know. I can use people like you."

Shparo was quite surprised when Valera showed up a year later in the gym where for seventeen years the training of polar expeditions has taken place. Valera was included in a training expedition over the ice covering the Laptev Sea. At night he was so cold that he'd be woken up by the chattering of his own teeth. He suffered from incredible fatique, sometimes falling asleep while walking, but he never let on: In space, he felt it must be even worse.

Nine years later he was fully accepted as a team member and had covered thousands of kilometers on skis over drifting ice and tundra. After overcoming further medical problems, he was finally supposed to be able to fly.

He died so close to Earth, carried up just a little way by that old biplane. The Universe was within his reach. He would have made it!

For those who knew him well, there is now one cosmonaut less.

¤ ¤ ¤

Guest Editorial

Wayne Williams, K4MOB
Editor, The Repeater Journal

What direction do you think Amateur Radio is heading? Are you satisfied with the way things are at present? Should there be cause for alarm?

If you honestly take a few moments and think about these questions, you can really get quite disturbed. ..... What worries me is the direction we are training our new Amateurs today. We have Extra Class operators who can't even solder a PL-259 on a piece of RG-8. ... We have newly licensed Amateur operators who cannot hook up a 2 meter radio in an automobile. ....

Whose fault is this state we're getting into? It's ours, my friends! We are not properly training today's young Amateurs so they will know what is going on. The poor folks are not ready for what they will face when they step into Amateur operation with a new call sign. ....

We can't blame the "appliance hams" anymore than we can blame ourselves. We have gotten complacent and are sitting back and letting "George" do it in the clubs. Apparently "George" isn't doing it properly, either, probably because when George was licensed, he was thrown in and had to learn for himself.

I know we can all sit around and talk about the "good old days," but they are gone and will never return. We have to look at the future. The future involves getting more young hams into our ranks. The future belongs to them. We "ole timers" won't be around forever, but we need to leave the Amateur Radio fraternity in better shape than we found it. We need to see that courtesy, fairness, help, friendliness, and love for our fellow hams returns to the airways and within our clubs and at our meetings.

Things change, times change, we all change, but we need to stop, reflect to what we are changing to, and reverse things. It's not too late. Your club meeting programs are excellent forums for teaching and training your members. Interesting programs of Amateur Radio procedures and "hints and kinks" ideas will probably make some more people come to the meetings. It might pull some "old timers" out of the woodwork if you get them to plan a program on the proper way to install a PL-259, or the proper way to trim your dipole for proper SWR.

(Condensed from *The Repeater Journal,* Nov. 90)
(The SouthEastern Repeater Association, Inc., Tobaccoville, NC)

(Auto-Call Editor's comment: Wayne is right. Experience doesn't come in the envelope along with the license. The best of the "ole timers" wasn't an instant expert even back in the "good old days" of bread board rigs and two modes of operation (CW and AM). Now, with the sophistication of new technology and the proliferation of new and exotic modes of operation available to Amateurs, it is more important than ever that a newcomer have an "Elmer" who can look over his shoulder and give him/her some guidance and the benefit of years of learning the hard way. Don't sit back and criticize the new Amateurs who aren't instant experts. Give them a few minutes of your time and your patient encouragement. That is the way we will develop good Amateurs for the future.

If you aren't involved in an Elmer program, then don't cast any stones.
Ethel Smith - K4LMB)

The Flight of Space Shuttle STS-35

After more than five years of preparation, it was finally happening. The Space Shuttle Columbia, STS-35, cleared the launch tower with Dr. Ron Parise, WA4SIR and the Shuttle Amateur Radio Experiment (SAREX) equipment on board.

We began to wonder, is WA3NAN really ready to transmit? The normal shuttle retransmission operations preparations had been taking place for weeks. The volunteer operators were scheduled and committed for the entire mission, 10 days, twenty-four hours a day. The equipment was checked and tuned up and we were ready to transmit again. The first telebridge occurred and it began to sound much as it did in the test a couple of weeks earlier, with one major exception, Ron did not answer.

The Goddard Amateur Radio Club operators collectively held their breaths, but WA4SIR was not to be heard. However, later telebridges were successful, we retransmitted each session over our normal shuttle retransmission bands and we began getting calls that our listeners had heard the telebridge. The hours of preparation had payed off.

At the next telebridge, Ron and the kids in the schools came in loud and clear. SAREX II, the dream, was a reality! It was great to be a part of it, especially on Thursday night, December 6, at 9:30 p.m. EST, when WA3NAN's scheduled contact time arrived. The club's facilities were filled with members, guests, and two students, Danny Schultz, N3HCH and Steve Bauer. Danny is a young ham, Steve is the son of Frank Bauer, KA3HDO, well known to the local ham community.

Chuck Sommer, N4OSD, the President of GARC, picked up the mike and began "WA4SIR, this is WA3NAN, do you copy, Ron?" No answer...we could hear him, but he couldn't hear us. It was not until nearly four minutes into our sked that Chuck finally broke through, Ron came back and the block house erupted in applause. Several club members got to say hello and best wishes and Steve and Danny got to talk to Ron...Yes, the hours of preparation paid off, SAREX worked...the dream is now a memory.

With thanks to many volunteers and their efforts, GARC was able to stay on the air and retransmit the entire mission and we will do it again and again...Stay tuned for STS-37, we'll be there as Ken Cameron and the entire ham crew[1] make the Shuttle Amateur Radio Experiment dream a reality once again!!!

If you would like to become part of the Goddard Amateur Radio Club's reality, associate memberships are open to all. For information, write to: The Goddard Amateur Radio Club, Inc., P.O. Box 86, Greenbelt, MD 20768. Our meetings are on the Third Wednesday of every month at 5:00 p.m. at the Club Station on Soil Conservation Road.

Chuck Sommer, N4OSD and
Vikki Gigante, KA3PVS

[1] Plenty of hamming is planned on the STS-37. All crew members now have Amateur licenses. Ken Cameron is Advanced Class KB5AWP, Flight Commander Steve Nagel is N5RAW, and the two Mission Specialists are Linda Godwin, N5RAX and Jay Apt, N5QWL. They are working with ARRL in the development of lessons plans, in hopes of teaching NASA "Lessons in Space" program on Amateur Radio topics during the March mission. More than 850 schools, teachers, and parents have requested ARRL's Shuttle Amateur Radio Experiment (SARX) school packets.

From ARRL Letter

A Case for Battery Power

I've been using battery power at Field Day for the last five years and have been quite pleased with the results. In June my second 20 amp, 12 volt power supply suddenly stopped working... and I hustled out to the storage shed, grabbed one of my Field Day batteries and its charger, carried it up to the shack and was back on the air. Well, I was so pleased with the results that I decided to quit messing around with 20 amp, 12 volt power supplies and stick with the battery all the time.

Try using a battery full time. No longer do you need to worry whether your power supply can supply the rig you want to hook up. No longer do you need to worry whether the power supply is located in the right place. You can hook everything you've got to the battery, run them all at the same time, and have power reserve to spare. It's really the way to go.

I use Sears "Die Hard" batteries, exactly the size I need in my car. My favorite charger is a "Cliplight" 10 amp chager from KMart. It is particularly good because you can leave it permanently connected to the battery without worrying about overcharging. I use a Sears battery box (plastic type) to shield the battery from the floor.

Try it, you'll like it. Trust me!

Loyd, K8EI in Woodbridge Wireless *Wireloose* Oct. '90)

"Ovonics"

Recent developments in solar cells are bringing much encouragement that solar power may become a realistic solution to the worlds power needs. The first solar cells developed were somewhere around 2% - 3% efficient. Today there are cells with around 30% energy efficiency. In a suburb of Detroit, Michigan, inventor Stanford Ovshinsky, is demonstrating a thin-film technique for making solar cells by spaying layers of materials onto wide spools of stainless steel. The sheets can be rolled up like window shades for easy transportaion and can be tacked to roofs like shingles! The technique, he says, can also be adapted to produce computer chips that can provide three-dimensional circuits which will make possible the next stage in computing power and provide "gigabytes of memory, parallel processing and neural networks of circuitry that think like people." He also claims that automobile batteries using this technique could run 240 miles on a charge and last for the life of the car. The concept really works. The U.S. Department of Energy, for one, has determined that Voshinsky's cells are the world's most energy-efficient, which is to say they produce the most electricity for the lowest cost.

Hanging in the window of a conference room at Energy Conversion Devices in Troy, Michigan, a 2-foot-square scrap of what looks like a tarpaulin hangs in the window. An electric socket dangles from one of the object's lower corners. When a sliver of sunlight splashes its surface, Ovshinsky plugs a radio into the socket and the room fills with music. The power is coming from that 2-foot-square collector. Ovshinsky's envisions carpets of his solar collectors dotting the planets' deserts and tundras, sending cheap current round the globe and abolish the environmental, political and economic tensions that accompany the use of non-renewable fuels.

"Ovonics" is another new word to add to your vocabulary. The word is coined from the first two letters from Ovshinsky's last name. It is defined in Webster's Ninth New Collegiate Dictonary as "a branch of electronics that deals with applications of the change from an electrical non-conducting state to a semiconducting state show by glasses of special composition. (Amorphous silicon or so called "glass transistors.") You can expect to hear more about "Ovonics."

(Information from "The American Way"

Recognitions

Nominations are being sought for recognition of outstanding Amateurs in the ARRL Atlantic Division. At the Atlantic Division Convention (in Rochester, NY; May 17-19) an award will be made to an "Amateur of the Year," who is voted the most outstanding all-around Amateur from the Division, with a strong record of service to the Amateur Community. An awards may also be made to a "Grand Ole Ham" in recognition of a lifetime of service to Amateur Radio. New for 1991 is a "Technical Achievement" award that may be presented to an individual or to a group.

Complete information on the awards and nomination procedures is available from Richard Goslee - K2VCZ, 24 Elaine Drive, Rochester, NY 14623. The deadline for nominations is April 10. Kay Craigie - KC3LM, Vice Director; ARRL Atlantic Division

Auto-Call received a nice recognition in the November Issue of CQ Magazine. In the column "*Bill's Basics,*" written by Bill Welsh - W6DDB and intended for newcomers to Amateur Radio, Bill noted, "The Foundation for Amateur Radio is a federation of more than 50 clubs in the area of our nation's capital. I have found their publication (the Auto-Call Magazine) to be an excellent source of up-to-the-minute amateur radio news." The comment has produced several requests for sample copies of Auto-Call.

Several clubs have been sending subscriptions for the Auto-Call to their local libraries. Alexandria Radio Club has just presented subscriptions to four area libraries. This is a great way to reach newcomers; We hope more clubs will follow the lead. "Last month" copies of Auto-Call will be made available to local club training class managers (or other activities promoting Amateur Radio) if someone will just arrange to pick them up. Call (703) 536-9537 or 536-8469.

Silent Keys

George Sterling - W1AE, former FCC Commissioner, became a Silent Key on November 14. He was 96 years old. Sterling was very popular in the local Amateur community and was well known throughout the world. In 1940 he founded the famous Radio Intelligence Division of the FCC, drawing mainly from radio Amateurs he recruited for this important effort to counter enemy espionage by radio. The RID won great acclaim and its operations were featured in a Reader's Digest story, dramatized in a "Gangbusters" radio program, and written up in a number of magazines and books. He is also famous for his own publications, including his "Sterling's Radio Manual" which was written in 1927 and was reprinted (through four editions) into the late 1940s. This past April the RID celebrated its 50th anniversary here in Washington and President Bush sent personal greetings to Mr. Sterling. He has been living in Peakes Island, ME since his retirement from the FCC in 1954, but frequently spent the winters with his daughter in Baltimore.

Radio had been part of Sterling's life since early in this century. He began "playing" with radio in 1908 and was licensed as an Amateur in 1912, at the age of 14. This was immediately after the first law regulating Amateurs became effective. He is survived by his wife of 66 years, affectionately known as "Lady Margaret." She will be moving to the Baltimore area to be with her daughter.

Sterling was a dedicated Amateur for nearly 80 years and through his contributions and accomplishments he brought much recognition and respect to the Amateur service. The entire communications community has lost a greatly loved man.

ANNOUNCING THE

VIENNA WIRELESS SOCIETY WINTERFEST™ 1991

RAIN SNOW OR SHINE

SUNDAY, FEBRUARY 24th

7:30 AM

AT THE

VIENNA COMMUNITY CENTER

120 Cherry Street

Vienna, VA.

GENERAL ADMISSION

$ 5.00 PER TICKET

XYL, UNDER 12 FREE

FROSTBITE TAILGATING

$10 PER SPACE - OPEN 6AM

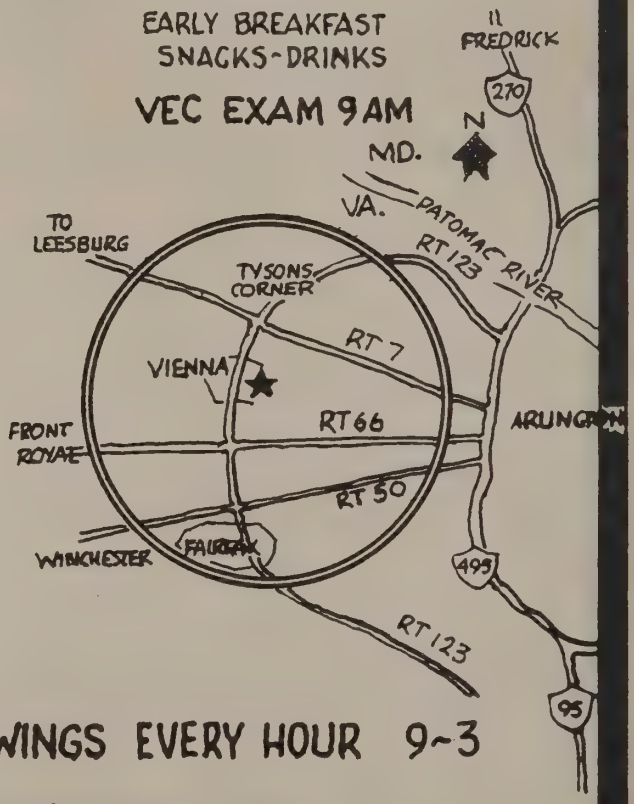
FIRST COME - FIRST SERVED

FOOD SERVICE

EARLY BREAKFAST

SNACKS - DRINKS

VEC EXAM 9AM



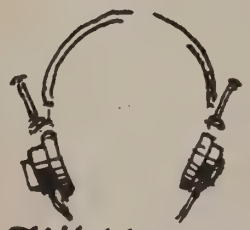
DEMOS

EXHIBITS

NEW

USED

OLD



TALK IN KA4HTA/R

146.085 in 146.685 out

146.197 in 146.797 out

USUAL AMENITIES DRAWINGS EVERY HOUR 9-3

AN ARRL SANCTIONED HAMFEST

Foundation For Amateur Radio

Ham of the Month

Edmund Peterson, K3LJP

Ever since Ed received his Amateur Radio license approximately thirty years ago, he has been an active force in the promotion of ham radio.

Shortly after he got his license he started the Adventist Amateur Radio Association, which is a world-wide organization of several thousand Amateur Radio operators. Currently this group sponsors over a dozen HF nets around the world. Some of these nets are regional in nature, while the remainder are world-wide. Many foreign missionary hams have radio equipment at their isolated outpost because of Ed's efforts.

The Washington Adventist Amateur Radio Association (a FAR club) owes its very existence to Ed. In addition to starting the organization, he has provided continuing guidance. He has organized countless license classes, and many hams have their licenses because of this. He has always been active in public service communication, and many of the club members participate in this facet of our hobby because of his inspiration.

The Pathfinders, a world-wide youth organization which is similar to the Boy and Girl Scouts, have radio merit badges (both basic and advanced) as a result of Ed's direction. In the last five years this group sponsored camporees for its members in North America (with around 15,000 kids at each of them), and Ed made sure that Amateur Radio was prominently present at both of these two events. This made a real impact on the participants. As would be expected, the sponsoring church organization has a visible Amateur Radio presence during its quinquennial world business meeting - again due to Ed. Last summer there were over 40,000 delegates and visitors present.

Part 97 of the FCC rules says that one of the five reasons for the very existence of the Amateur Radio service is to enhance international good will. This is one area where Ed really stands out. He is an avid DXer, but with one difference - he takes the time to talk to the person he contacts, and gets to "know" him.

The generosity Ed has shown with his resources (both time and material) in the realm of the Amateur Radio service is just a sample of how he lives his entire life. This outstanding trait is present in all he does.

Submitted by Henry C. Miller, W3BWN

Ham of the Month Nominations

There are over 50 clubs within the Foundation For Amateur Radio and we know there are many "special" people in those clubs who are deserving of recognition. Send in your nominations for Ham-of-the-Month any time throughout the year. If more than one nomination is received in any month, the FAR Awards Committee will select one candidate for recognition and hold additional nominations for consideration in future months. For further information contact HAM OF THE MONTH committee Chairman Tony Young, WA3YLO at (301) 262-1917.

Send nominations in care of AUTO-CALL.

RICHMOND FROSTFEST XIV

Winter Amateur Radio and Computer Show

SUNDAY, JANUARY 20, 1991

The Showplace, 3000 Mechanicsville Turnpike, Richmond, Virginia

Hours: 8:30 A.M.-3:30 P.M.

An ARRL Approved Event

Presented By The Richmond Amateur Telecommunications Society

GENERAL INFORMATION

DEADLINE FOR ALL RESERVED SPACES AND ADVANCE TICKET SALES IS DECEMBER 29, 1990. No space reservations or advance tickets after that date. Any unsold spaces will be available on the day of the show. All monies for advance tickets and reserved spaces must be received no later than January 7, 1991.

AMATEUR RADIO EXAMS GIVEN AT 10:30 A.M. Pre-registration required. **No Walk-Ins.** Contact Phil Giella at (804)561-3020.

NEW LOCATION THIS YEAR! Building available for set-up from 12:00 P.M. until 8:00 P.M. on Saturday the 19th. Will re-open at 6:00 A.M. Sunday for set-up. Drive-in for unloading is available on Saturday only.

Exhibitor, hourly, and major door prizes. Hourly prizes drawn starting at 9 A.M. Major prizes drawn at 3:30 P.M.

Talk-in provided Sunday morning on the 146.88 and 145.43 repeaters.

TICKETS AND RESERVATIONS: Mark Huff, WA4DHY, (804)747-0227 Evenings 7 PM - 10 PM (Mon. - Thurs.)
OTHER INFORMATION: Bill Mason, AB3P, Frostfest Chairman, (804)745-5822

REGISTRATION FORM

NAME _____ TELEPHONE _____

BUSINESS NAME or AMATEUR CALL SIGN _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

_____ ADMISSION TICKETS @ $5.00 EACH..... $_____

_____ ELECTRICAL POWER FOR FLEA MARKET AREA @ $5.00..... $_____
(Payment of one power fee covers all flea market tables for an exhibitor)

_____ GENERAL TABLES (8') @ $10.00 EACH..... $_____
(Non-Commercial Exhibitors must also purchase General Admission Tickets)

_____ COMMERCIAL BOOTH SPACES (8' each) @ $30.00 FIRST TABLE,
$25.00 EACH ADDITIONAL TABLE (Price includes electrical power)..... $_____

ENCLOSE SELF-ADDRESSED STAMPED ENVELOPE IF ONLY ORDERING TICKETS
MAKE CHECKS PAYABLE TO RICHMOND FROSTFEST

TOTAL: $_____

MAIL THIS FORM, WITH YOUR CHECK AND S.A.S.E., TO:
RICHMOND FROSTFEST, 5005 MEREDITH WOODS ROAD, GLEN ALLEN, VA 23060

CUT-OFF FOR ADVANCE TICKETS AND RESERVATIONS IS DECEMBER 29, 1990

T-MARC

The Middle Atlantic FM and Repeater Council

Mailing Address: 7623 Old Washington Road, Woodbine, Maryland 21797

DEADLINE FOR ARRL REPEATER DIRECTORY PASSED

The deadline for updating repeater listings for the 1991-92 edition of the ARRL Repeater Directory was December 15th. The league only accepts repeater listings for their directory from the frequency coordinators around the country. T-MARC received a large number of up-date forms from many of the repeater sponsors in this area. All of this data has been placed in T-MARC's master data base and was sent to the League before the deadline. The ARRL Repeater Directory usually becomes available about the time of the Dayton Hamvention in April.

Recent T-MARC Coordination Activity

The T-Marc Frequency Coordinating Committee canceled N3BLB's 449.675 repeater, which has moved to a new location, due to the sponsor's failure to respond to inquires from T-MARC. Since that action, T-MARC has received correspondence from the sponsor and re-coordination is pending receipt of missing information.

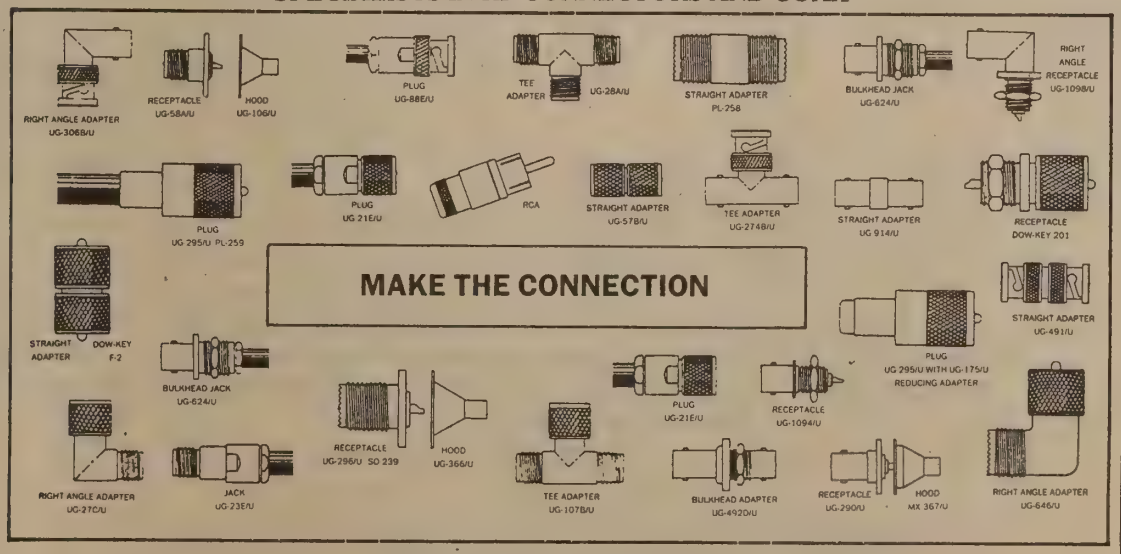
Final re-coordination was issued to NVFMA for its 444.750 and 146.91 repeaters at their new site in Falls Church, Va.

Re-coordination of KA3GWC's 443.200 repeater was issued for its new location in downtown Baltimore, Md.

T-MARC finally received correspondence from the Anne Arundel Radio Club in reply to the Frequency Coordinating Committee's requests for information. Re-instatement of coordination should be forthcoming.

The R.F. Connection

"SPECIALISTS IN RF CONNECTORS AND COAX"



The R.F. Connection
213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877
301-840-5477

✓280

Maryland FM Association, Inc.

Rules for Use of the 146.76 System
by
Organized Groups

All amateurs are welcome to use the 76 system on a NON-PREEMPTIVE basis for organized activities such as nets and emergency drills. The system is always available for FCC-permitted uses in the amateur radio service.

"The 76 system: means the repeater system owned and operated by the Maryland FM Association, Inc. (MFMA). This system currently consists of three interconnected repeater systems:

1) the 146.76 transmitter, which has 8 remote receivers on 146.16,
2) the 223.76 in/224.76 out single site repeater, and
3) the 449.0 in/444.0 out single site repeater.

The 76 system provides reliable coverage of parts of five states plus the District of Columbia. This system, because of its wide coverage, can be a good resource for interconnecting geographically-concentrated emergency activities and nets.

NON-PREEMPTIVE basis means that under normal, non-emergency conditions, the net control operator will:

a) always immediately recognize any breaking station (regardless of whether or not the word "break" is actually used), and
b) always immediately find out whether the breaker has an emergency, and
c) always immediately find out what the breaker wants.

There are two reasons for the non-preemptive rule. First, we want to ensure that emergency traffic is handled quickly. Second, we want amateurs who have set up schedules (without) knowledge of a net or other activity) to be able to move quickly to another frequency.

We request that, after carrying out (a), (b), and (c) above, the net control [station] service the breaking station as appropriate, in reason, and according to good amateur practice.

John G. Hengen K3HOI
Maryland FM Association, Inc.

Foundation Meetings

The Foundation for Amateur Radio meets at 8:00 p.m. on the second Wednesday of each month.
Meetings alternate between Maryland and Virginia:
In even numbered months, meetings are held in Takoma Park, Maryland
In odd numbered months, meetings are held in Alexandria, Virginia
Visitors are always welcome
Membership is open to any Amateur Radio organization in the local area.

Phone (301) 725-5822 for informtion

The next meeting will be held in Virginia on January 9.
School Building at 1108 Jefferson Street
Talk-in on 147.18

Woodbridge Wireless, Inc

Meetings:	3rd Tuesday of each month, at 7:30 p.m. Tall Oaks Community Center, Lake Ridge. Intersection of Hedges Run Drive and Cotton Mill Drive.
Repeater:	WB4FQR/R 147.84/24 and 449.9/444.9 WB4GJZ/R 223.18/78
Nets:	Mondays, 8:00 p.m. local (0100 UTC) 147.84/24, 223.18/224/78 (the repeaters are linked for the net.) Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz Saturdays at 9:00 p.m. - in new 10 Meter Novice band 28.460 MHz SSB
Mailing Address:	P.O. Box 112, Woodbridge, VA 22194

I hope this finds all well and prosperous and peaceful as 1990 bows out and 1991 begins. The Woodbridge Wireless, Inc. has finished up a good year for the club. We conducted training for Novice through Extra class licenses. We saw a number of new hams join our ranks, as well as watched them grow and progress. The club volunteer examiners held one testing session for the ARRL Volunteer Examiner Coorinator (VEC). We said goodbye to some old friends and welcomed new ones. Thanks to the wisdom of our leaders, the WWI is soundly prepared to face the new year.

The WWI has always been active in contesting, using Jim, W4IY's call. The year 1990's club contest results to date for W4IY: Field Day - 1st Place in the nation, non-battery; VHF QSO Party - 3rd place in Virginia; UHF Contest - 4th Place in the nation, multioperator class. We're having lots of fun and getting to be well known in the contests. People remember W4IY. Club members will keep up the good work as we march into 1991.

The WWI Christmas Dinner was held at Black Forest Inn on December seventh. We thank the owners for their warm hospitality. Our annual holiday bash has been held at the Black Forest more than any other place. It's getting to be a tradition.

The WWI has a distinctive insignia and members can show it off on special T-Shirts, Wind Breakers, and Jackets. Joe, W4ADM has a contact for buying items sporting the WWI motif. If interested give him a call.

During the November meeting, Tony Hawker, K3PCC, presented a talk on the Global Positioning System. If you've got the bucks and a good map and a GPS receiver, you need never be lost!

This Fall we finished three successful activities:
Crew races for the Head of the Occoquan (HOTO), Scouts for Food, and Lake Ridge runners. Thanks to all who participated.

The next Novice/Technician class will start January 10, 1991, at Our Lady of Angels (Acquinas) school in Woodbridge at 7:00 p.m. We should be able to follow on with a testing session, possibly in May.

That's it from Prince William East and the WWI for now. Best to all.

Jim - WJ4M

P.S.

Emergency: The Potomac Hospital has signed an agreement for the antennas for another year.

Vienna Wireless Society

25 Years of Public Service

Meetings:	2nd and 4th Fridays of each month, 7:30 p.m. Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeaters:	K4HTA/R 146.085 in/146.685 out 222.340 in/223.940 out, 448.250 in/443.250 out
Nets:	Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out. Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz
Information:	Brian Treadwell, WV4V (703) 938-1442 (H), (202) 457-7179 (O)
Training Classes:	Paul Wilkins, AB4CY (703) 560-2779
Mailing Address:	P.O. Box 418, Vienna, VA 22183

Our early November meeting covered hints and kinks on fox hunting by Mark - N4TPY. Two days later the fox went into hiding only to be sniffed out, first by Marge - N2JRG and compatriots. It didn't take long to figure out why an RF attenuator is a very handy device in DF,especically if the source isn't that far away. About a dozen members had a pleasant sunny afternoon adventure.

December brings us the election of two of the five Directors of the club. It also brings us a carry-over project show-and-tell that didn't make it in November. Another year's rolled around and it's dues time again, so be sure and fill in an information slip and get it to the treasurer along with the five bucks.

We have five new free one-year members in the group that passed their Novice exam from the Fall training classes. Welcome to ham radio, guys, we know you'll enjoy the hobby. Two others passed exams before the class finished and a few need some more time listening with the ear phones on. For our next go-round, the club is starting a slow speed CW net to parallel the Pow-Wow SSB net. The CW will be on 28.390 starting 9:00 p.m. local time Monday, December 10th. The CW practice is designed to get those ugrades that are stalled at 13 or 20 wpm barriers. We have an upgrade session scheduled at Winterfest (24 February) so there is more than enough time to rachet up to new heights and really ace the code exams. After we get going, the net will probably split into a 13 wpm section and a 20 wpm section.

The year past was a pretty good one for VWS. An active membership, lots of drive for upgrading, plenty of field activities, active nets, and good company in a helpful tradition. Let's hope the new year is conducive to further growth and enjoyment.

The club Winterfest this year should be our best. We have more room and we've ordered up a beautiful day, even if it might be a little chilly. Hope you make a point of joining us February 24th at the Vienna Commnity Center.

Paul - AB4CY

FAR Speakers Bureau

The Foundation maintains a Speakers Listing for the local area as a resource for member club's programs. Herb Ley, N3CDR has taken on the task of expanding and updating this listing. He needs your input. He also needs your requests.

If you feel qualified to speak on any appropriate subject, contact Herb.
If you would like to find a good speaker for your club, contact Herb.

Herb Ley, N3CDR
P.O. Box 2047
Rockville, MD 20852

Southern Maryland Amateur Radio Club

Meetings:	2nd Friday of each month, 7:30 p.m. Church of the Nativity, Manchester Drive, Camp Springs, Maryland. (Right at first light on Route 5 South of Beltway and immediately left into mid-block driveway).
Repeater:	W3PT/R 147.15/147.75
Nets:	Informal - Tuesdays, 8:00 p.m., W3PT/R Informal - Thursdays, 8:00 p.m., 28.447
Mailing:	P.O. Box 273, Cheltenham, MD 20623
Information:	Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

SMARC MEMBER'S ARTICLE IN QST

"A Letter to your XYL", by Bobbi Rogers, N3IAR, will appear in the January issue of QST. Bobbi describes her article as an open letter to Ham wives everywhere offering words of encouragement and understanding for our hobby. To the best of our knowledge, this is the first time a SMARC member has had an article printed in one of the big national ham magazines. Congratulations are in order.

While we're congratulating people, KA3VND upgraded to Amateur Extra last month, KA3VNO passed his Extra written exam, and KA3VNB sent off his application for mixed mode DXCC with 109 countries confirmed. All these folks have been licensed less than a year and are graduates of last fall's Novice class.

This fall's class finished at the end of November with five people passing the Novice exams at the last class and five more scoring near misses.

Our special event station on Cobb Island commemorating the 90th anniversary of the first radiotelephone transmission was well attended and well received. The Charles County Commissioners issued a proclamation declaring Dec. 1st as Amateur Radio Day in Charles County.

Commissioner Murrey Levy presented the proclamation at the station on Saturday morning and one of professor Very's granddaughters stopped in for a visit. She related stories told to her by her mother about life on the island in 1900 and about Very and Fessenden's experiments. Two stations were set up, and over 250 QSO's with hams in most states and about 25 foreign countries were made. SMARC would like to thank Charles and JoAnn Chapman for opening their home to us and allowing us to set up and operate there. Thanks also to N4ITE and AG3B for doing most of the work on this project.

SMARC has a number of amateur star gazers in our ranks. Led by WA3ZII and N3CAM, these fellows, who can't sleep at night and haven't discovered 80 or 160 meters, spend their nights out in the back yard squinting through telescopes and counting stars. (Not to be confused with W1ZX who howls at the Moon through his 24' dish). WA3YUV, KF3T, KA3GCC and probably a few others are busy building their own telescopes and buying lots of long underwear for those winter nights out in the yard. It helps that most of these guys live way out in the boondocks where it actually gets dark enough to see the stars at night.

SMARC would like to welcome and announce our new club officers for 1991. Hank Mason, W3FVD, is our new President; Mike Conte, WA3ZII, Vice President; Bill Curran, NW3M, Secretary; Richard Eshelman, KA3VNO, Treasurer; Bill Rogers, N4ITE, Public Service Coordinator; and Rick Creager, KK4GV, Board of Directors.

The next SMARC meeting will be Monday night, January 14 at the church. No program has been set yet; in fact, no activities manager has been found to set up a program (any volunteers are welcome) but we'll find something to entertain ourselves. Please come and join us.

KO7V

MADRAS

The Maryland Apple Dumpling Radio Amateur Society Inc.

Meetings:	2nd and 4th Tuesdays of the Month - 7:00 p.m. At the NBC Building, 4001 Nebraska Avenue, N.W.
Repeaters:	145.45/145.85 MHz 444.100/449.100 MHz
BBS:	(301) 258-1954
Mailing:	P.O. Box 2468, Wheaton, MD 20902
Information:	Scott Standiford, W3YTW (301) 885-4333 or Larry Zeicheck, N3GKZ (301) 984-6112

SCHEDULE OF EVENTS

January 8 Regular Tuesday meeting at 7:00 p.m. Program on "TCPIP Basics Part I." MADRAS is moving in the direction of establishment of a node to serve this area and act as a link between Baltimore and Richmond. Gary - W9GC is giving the talk.

January 22 Regular Tuesday meeting at 7:00 p.m. A presentation on "DX Operation Part 1." Giving the presentation, Laquetta - KK4WQ and Jon - KA3OVK.

Both meetings will be at the WKYS conference room
NBC building,
4001 Nebraska Avenue, N.W.

CLUB NEWS

The new linear is now in operation at the club station in Rockville. Call Larry - NEGKZ at (301) 984-6112 for hours of operation and access. The club operated both weekends of the ARRL Sweepstakes in November. We logged 255 phone contacts under the call KA3TVK and 168 CW contacts under the call W3YTW.

New officers have been elected as follows:

President:	Larry Zicheck - N3GKZ
Vice Pres:	John Kingdon - KAEVJH
Secretary:	Laquetta Karch - KK4WQ
Treasurer:	Nicole Adaniya - N4YKR
Member at Large:	Jon Albers - KA3OVK
Parliamentarian:	Scott Standiford - W3YTW

John Albers has taken on the effort of coordinating the TCPIP effort.

Hannie Raad - OD5RH will be in Lebanon over the Christmas holidays and can be found at 14,280 kHz nightly from December 23rd until January 6th, 6:00 - 7:00 p.m.

It is still not too late to put in your reservation to attend the MADRAS Christmas meeting, Thursday December 27th, at the Marrakesh Restaurant, 617 New York Avenue, 7:30 p.m. You must contact Larry for reservations.

We now have 5 persons wanting to attend classes leading to a Novice license. If you have interest, come to a club meeting.

Scott - W3YTW

Arlington Amateur Radio Club

Meetings: Third Tuesday of each month, 7:30 p.m., at the American Red Cross, Arlington Chapter, 4333 Arlington Blvd. (Rte. 50).
Net: Tuesdays (except meeting nights) 7:30 p.m., 144.87/145.47 MHz FM.
Info: Craig Church, N4EFJ (703) 979-8325.

Tower Soars

The long-awaited tower project took a giant step towards completion this month thanks to the united efforts of more than a score of Arlington ARC members. Tom - N4BYF, Tom - W4LMW, and Craig - N4EFJ met with members of the Red Cross Board of Directors to clear away red tape, while Kevin - N4KRR sought a contractor to cut the asphalt and pipes for a car barrier. Despite fears of a substantial cost overrun, Craig - N4EFJ set the weekend of November 10-11 for the commencement of hole-digging. Despite inclement weather, ten club members (Craig - N4EFJ, Bill - KM4DN, Hunter - N3HXU, Peter - WB3KQM, Tom - W4LMW, Tom - N4BYF, Rick - N4ASX, Rich - KA4GFY, Al - KK4XB, and Jim - KM4XG) excavated a hole 5' deep, 5½' wide, and 5½' long. Joe - AB4RA couldn't come but provided moral support and a great wheelbarrow. Sunday night, Bill - KM4DN commented, "All we need is a couple of bodies to toss into that thing and we'll be all set."

Two weeks later, Monarch Builders poured 20,000 pounds of concrete in less than two hours to anchor the first ten-foot section. They should finish erecting the tower and mounting the TH-5 by the time this issue is mailed. Thanks to all who donated a total of $400 at the November meeting in response to the appeal by Jim - KM4XG.

1991 Officers Nominated

At its meeting November 20, the membership of the Arlington ARC nominated a slate of candidates for club officers in 1991: For President, Rick - N4ASX and Frank - WB8OFR; for Vice President, John - KW4U and Dennis - W4PWF; for Secretary, Rich - KA4GFY (unopposed); for Treasurer, Tom - W4LMW (unopposed); and for Program Chairman, Jim - AB4YP (unopposed). Frank, who was nominated in absentia, graciously declined the nomination when told of it, so Rick's nomination for President is unopposed. Other nominations may be made from the floor December 18.

After nominations were closed, Tom Clark - W3IWI delivered an excellent presentation on very-long-baseline interferometry (VLBI -- a way of networking radiotelescopes to improve their "vision". He also discussed some of its down-to-Earth applications: measurement of continental drift, earthquake prediction, and the occasional midnight acquisition for microwave DXing (Tom holds the 2400 MHz distance record). Without a doubt, this was one of the most interesting presentations of the year.

Contest Craziness

In response to the "OFR Challenge" (see October Auto-Call), more than a dozen Arlington ARC members threw down the gauntlet and entered the 1990 ARRL Sweepstakes. After the CW contest, Peter - KC2UJ emerged as the winner of the free meal, bashing out 50 contacts in his first-ever CW contest effort. Dennis - W4PWF (16 contacts), Jim - KM4XG (16 contacts), and Mike - NW3V (7 contacts), also got a taste of the contest frenzy. Frank - WB8OFR, who disqualified himself from his own "OFR Challenge," amassed 419 contacts and racked up 73 multipliers.

Peter - KC2UJ, also won the phone contest with 200 contacts in 65 sections. Peter - WB3KQM took second place with 148 contacts and 62 multipliers. Other scores: Tom - N4BYF 145x52, Tom - W4LMW 138x49, Craig - N4WUV 178x35, Jim - KM4XG 30 QSOs, Rick - N4ASX 15 QSOs, and Rick - KC4REW 11 QSOs. Frank - WB8OFR, again disqualified, worked ALL sections -- 1310 QSOs!

(Continued on page 38)

Anne Arundel Radio Club

Meetings:	1st and 3rd Thursdays at 8:00 p.m. Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off MD Rt. 214 near Annapolis.
On-the-air:	Thursdays when there is no club meeting. 2030 Local on 147.705/105 Tuesdays at 2030 local time on 28.410. Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz
Address:	P.O. Box 308, Davidsonville, MD 21035
Information:	Margaret (Holly) Bevan - N3BMB (301) 923-0229

Last Fall the AARC Board of Directors announced a contest among club members to produce a unique patch to use in connection with the celebration of the Club's 40th Anniversary in 1991. Marti Supp - N3KVK submitted the winning entry. The winner is a circular patch with the Club's logo in the center. Beneath the logo are the years 1951-1991. In a circular pattern around the logo and dates are the words "ANNE ARUNDEL RADIO CLUB" and "40 YEARS OF PUBLIC SERVICE." The patch will be used as a reward to members who earn it through some special service to the Club.

AARC has been invited by FIRST NIGHT ANNAPOLIS to participate in its first annual New Year's Eve mammoth celebration, a major family festival in which the community can celebrate New Year's Eve through enjoyment of the lively arts. The Club plans to participate in several ways, one of which will be to provide an Amateur Radiogram Center.

At the last examination session, Nancy NT3Z and Dean Alley - NS3V administered 26 exams to 13 persons. Eight exams were passed with 6 upgrades.

Carole Connolly - KA3WTP and Kenneth Swain - KC4PLV have upgraded to Advanced. Brian Davids - KA3WWI is now a Tech. Gordon Davids - KD3UU (formerly N3IJJ) is waiting for the FCC to catch up with Extra call. The Alleys wish to express their appreciation to those Club members who have been there to help.

Holly - N3BMB

Arlington Amateur Radio Club - Continued

Harry - N4CWP, Rick - N4ASX, Rich - KA4GFY, and Frank - N4ZHG turned in the top multi-op score. Frank - WB8OFR says this crew will receive a special award for their unique effort.

Making good on his offer, Frank cordially invited everyone who participated in the Sweepstakes and submitted a score for the Arlington ARC to the First Annual Sweepstakes Pizza and Beer Blast at Joe's Place in Arlington, at noon on December 15.

1990 has been a productive year in the club. Thanks to everyone who contributed towards making this first year of the decade very special.

Frank - WB8OFR and Mike - NW3V

Metrovision
FAST SCAN - COLOR - ATV

Meetings:	Quarterly: Call for next meeting time and place.
Repeater:	WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out Also accessible on 144.970, simplex, audio.
On-the-air:	Sundays at 8:00 p.m.
Mailing:	Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information:	Dick - WB3EPX (301) 439-8135 Gene - AD3F (301) 774-5307

At the Metrovision dinner, which was held in October, there was an election of club officers for 1991. These officers include the following:

President:	Dick - WB3EPX
Vice Pres:	Gene - AD3F
Treasurer:	Bruce - WA9GVK
Secretary:	Bernie - WD40

All of us will sincerely do our best to make Metrovision the best that it can be.

The Club Vice-President and I will be having a meeting sometime in January to plan our activities for the new year. Any suggestions from our membership on such events as the annual picnic, sit-down dinner, etc., will be greatly appreciated. You can contact either Gene or myself at the above telephone numbers with your suggestions.

Our next Metrovision meeting has been tentatively scheduled for March 7. This first meeting for the new year is generally held on the Thursday right after the Vienna hamfest. We will be holding the meeting at the QTH of Dick - WB3EPX in Adelphi, Maryland. We will provide more information and directions in the February issue of Auto-Call. Please let us all try to make the meeting so we can discuss our goals for 1991.

We would like to take the opportunity to congratulate Warren - N4MWU and his wife Laura on the announcement that they will be expecting a new baby sometime in February.

I wish the best for our members and friends for a prosperous and happy new year.

See you on ATV.

Dick - WB3EPX

Don't Let Lightning Getcha!

Back in the Summer, severe thunderstorms were experienced in a good part of the country. In one case reported in West Central Mississippi, a Kenwood 950 was severely damaged ***with the coax disconnected.*** The damaging surge came in through a phone patch. Fortunately nobody was killed. The electrical potential of lightning can be as high as 100 million volts! In an article for *Magnolia Report* of 8/90, KF5DE reported the above incident and cautioned hams to remember just how dangerous electrical storms can be. Consider some safeguards in your shack before next Summer rolls around.

Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings:	Quarterly, on the second Sunday of the month. Time and place to be announced.
Repeater:	N3AGB/R, 52.250 MHz in; 53.250 MHz out.
On-the-air:	Saturdays at 1900 hours.
Mailing:	Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903
Information:	Bob Sporn - WA3GGO (301) 434-1719

Activity on the repeater has been brisk, albeit, for the moment, we do not have the increased scope via the two meter replexer. David Wharton - K3STM had an eyeball with the radio officer of the hospital ship *Comfort* at the National Institute of Health. Together they had recently handled numerous phone patches for our military personnel overseas.

THE SUNDAY MORNING COFFEE NET (50.4 MHz) AM AT 0900 HOURS.
With Chris Kushay - KA3LJR, having returned from South Carolina, and Joe Saunders - K3UAL, back from his trip to Florida, and some other additions to our net, activity has increased. William N. Krebs - W3AEA has recovered from a stroke, is working on a new rig, and maintains a regular schedule via CW with his daughter in Kentucky.

MARYLAND FREESTATE SIX METER SIDEBAND NET (50.125 MHz SUNDAYS AT 1900 HOURS. With the new year, we expect a substantial growth in the check-ins on this net. Join us on six meters; AM, FM or SSB.

Bob - WA3GGO

Just For Laughs

The older one gets the harder it is to make ends meet . . . especially the fingers and toes! (Thanks ARNS)

One ham reports that middle age is when a narrow waist and a broad mind begin to trade places.

Cooperation is doing with a smile what you have to do anyway.
(Mike & Key via Amateur Radio News Service)

Remember, many things are opened by mistake; But none so frequently as the mouth.
(Amateur Radio News Service Bulletin 10/90)

Remember, there is a difference between "peace of mind" and "piece of mind."
(Amateur Radio News Service Bulletin 10/86)

Did you ever consider why we were given two ears and only one mouth?
(WordPerfect Magazine)

The man who really wants to do something finds a way; The other kind only finds excuses. (PhD News)

Pentagon Amateur Radio Club

Meetings:	Monthly, on the second Wednesday of the month. Noon. PARC clubroom (5B272), The Pentagon
Repeater:	K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.
Packet:	145.07, Digi - K4AF, Mailbox - PARC, Node - PNTAGN.
Mailing:	P.O. Box 47063, Washington, DC 20050
Information:	David G. Boyd - K9MX (202) 695-2020 or (703) 659-6241 or William Klein - N4VBW (202) 697-8157 or (703) 590-2546

Pentagon Amateur Radio Club support to the Marine Corps Marathon was extraordinarily successful, with some 60 hams from as far away as Baltimore pitching in to provide communications support for this major event. Thanks to Don Darby, KA3VNE, coordination was flawless, even when our primary repeater failed and we had to move to another machine. Unfortunately, tragedy did mar the race when - despite the best efforts of our communicators and medical personnel - one young lady died of heart failure during the run.

PARC has not had a test session since September, thanks to the many schedule disruptions caused by Saddam Hussein's unscheduled visit to Kuwait. Schedules are now so uncertain that none of PARC's examiners can make any firm commitments to our usual noon hour exam. We hope to resume testing as soon as we can, but do not expect that to happen before March.

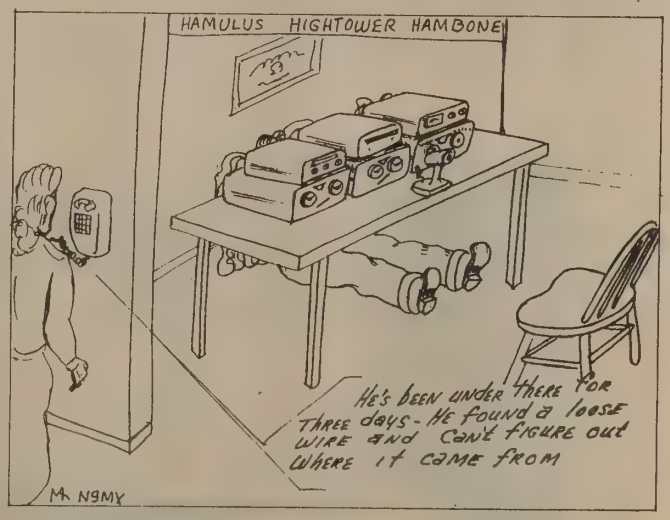
Members of this club have, of course, a special affinity with military personnel currently in Saudi Arabia, so when a local unit recently asked for help in finding a linear amplifier to take along to Saudi Arabia, PARC was happy to help.

We quickly disconnected the Drake L4B and turned it over for crating and shipment. The odds are good that, as you read this, that amplifier is being used to transmit MARS traffic back to families in the states.

Incidentally, PARC would be happy to help anyone with traffic for our personnel in Saudi Arabia get it into the right channels. Several members of all three service MARS programs have been making extensive use of the club station to handle traffic. Paul Bauer, N3DAN, in particular, has been passing traffic to and from vessels in the Persian Gulf. If you need help with traffic, call any of the club numbers listed above.

Have a Merry Christmas!

Spike, K9MX



Some Good News from the Gulf

Novice Classes, Saudi Arabia. Sponsored by the New Bern Amateur Radio Club of NC. Classes will be conducted under the direction of U.S. Marine Mark Bitterlich, WA3JPY, in an effort to "relieve the boredom and inactivity of those serving in 'the sand pile.'"
The club's next step is go get accreditation for a volunteer examiner team over there.

Stafford Amateur Radio Association

Meetings:	Weekly, 0730 a.m. every Saturday morning. at the "Nothin Fancy" Cafe on Route 1. All meetings are informal.
Repeater:	N4SMP/R 145.27 out 144.67 in. Autopatch for members.
Mailing:	c/o George Gautney - N4SMP, 9 Skyview Court, Stafford, VA 22554-5232
Information:	Dick Kirby - W4GFB (703) 720-0406 or George Gautney - N4SMP (703) 659-5720
Packet:	145.07, W4GFB-2

SARA has a new name to go with its old acronym! Since SARA's activities now extend well beyond support for a repeater, Stafford Area Repeater Association no longer seemed to do the job. With extensive support to the volunteer examiner program, local school clubs, the Boy Scouts and other activities, SARA has become a general purpose club. Accordingly, SARA - now fully incorporated - has become the Stafford Amateur Radio Association.

The SARA 2-meter repeater is well known for its impressive coverage, and - with luck - will be as successful with a new 440 machine that will shortly be installed in the same location as the 2 meter machine. Initially, the plan is to link both repeaters.

SARA test sessions continue to be well attended, and examinees appear to be better prepared. Of the fourteen who attended the November session, 9 upgraded and 4 received credit for at least one element. Upgrading to Technician were Mary J. Senness, KA7SGX, Christine Mroczek, KC4FMO, Edward Joachim, KC4TWE, Milton Wilson, KC4TTM, and Bob Lynn, who is still waiting for his Novice license to arrive. Wayne Lloyd and Carolyn Cavanagh went from no license at all directly to Technician in one sitting, while John Berton, KC4PDS and Becky Disher, KC4LRX are now entitled to sign /AG.

And K9MX finally has his tower up!

Have a great holiday season!

Spike, K9MX

The World Renowned Station of Ken Miller - K6IR

Fauquier Amateur Radio Club

Meetings:	Second Tuesday of each month, 7:30 p.m. Shadow Lawn Center, Warrenton, Virginia
Repeaters:	147.165 Voice (NZAN), 145.090 Packet BBS (N4YXW-1) 145.070 Packet Digi (K4LLQ-5)
Net:	Each Wednesday, 9:00 p.m., 147.165
Information:	Bob Taylor, KC4CVG. (703) 439-2786 (H) (703) 642-6070 (Work)
Mail Address:	Route 1, Box 445, Amissville, Virginia 22002

The Fauquier Amateur Radio Club Fall Novice training class came to a successful conclusion on 21 November with the testing of two students. One of the two, Jim Kranda, passed the Novice license test and is awaiting receipt of his license from the FCC. The class was the smallest training class the FARC has conducted over the past two years.

The November 13 meeting was privileged to have as the evening's guest speaker John Kanode - N4MM, ARRL Roanoke Division Director. He gave an interesting presentation on the ARRL structure, current Amateur Radio related petitions pending with the FCC, and the U.S. Amateur Radio position in preparation for the WARC 92 conference. After the presentation, John fielded questions from the membership.

The December issue of the FARC newsletter was published by the new newsletter editor, Chuck Gould - N4YXW, with publication assistance from Neil Spokes - AB4YK. The monthly newsletter will also be placed on the club packet BBS, courtesy of N4YXW. Thanks are extended to Al Swinger - K9MBQ, who has published the newsletter this past year.

Bill Mills - KC5PF

What's in a Name?

Every school kid associates the name of Eli Whitney with his invention of the cotton gin but, particularly to people in the electronics field, Whitney should be remembered for a much more profound invention: standardized, interchangeable parts - even between products of different manufacturers. Today we seldom "repair" anything. We simply drop in a replacement part.

Unfortunately, in the computer system industry, too many vendors still seem to want their own, individual, proprietary "standard." This tends to keep a consumer "locked in" to a particular vendor's custom system and prevents incorporating important features from other vendors. We believe that real open standards in computer systems would be good for everyone. Obviously we won't get them until the consumers demand them. So it looks like it's really up to us to make our wishes known.

A number of computer users are now joining together in user groups to try to make some order out of the present chaos. Users are certainly in an ideal position to prescribe real standards and their influence may actually bring Eli Whitney's invention into the age of computers.

(Inspired by article in *WordPerfect Report* 11/90)

(The address for the local Capital PC User Group is 51 Monroe Street, Plaza East Two, Rockville, MD 20850.)

Rock Creek Amateur Radio Assn.

Two Meter Net:	FM 144.65/145.25 Mondays 8:00 p.m.
RCARA Alumni Net:	7.23 MHz, Mondays 11:00 a.m.
RCARA LUNCHEON:	Wednesdays, 11:15 a.m., Anchor Inn, Wheaton, MD
Meetings:	7:30 p.m. the third Friday of each month at Vitro Labs
Mailing Address:	P.O. Box 1913, Silver Spring, MD 20902

The club's Jr. VP, Harold Holmes - N3BRM, is now home after back surgery and many months of continuing rehabilitation.

Mary - KA3THQ and Ed Buchheit - KA3RWX are proud parents of a new arrival, Theresa Mary. Congratulations!

Boyd - KZ3Z reports an element passing rate of 56% for the September ARRL sanctioned exams held at the Montgomery College. The 30 successful candidates consisted of 17 upgrades and 13 new licensees.

The following assisted Granny - W3AFV at the South Gate during the FAR Gaithersburg Hamfest: AK3B, KD3BT, W3BY, KA3CXK, KD3IO, W3LOV, KA3OVN, W3QP and KA3TGY.

Over 700 Bikers participated in the October 14 Multiple Sclerosis Society 1990 Bike Tour. The handling of pursuant traffic found Larry - KA3BAL, at net control, assisted by the following point contacts: AK3B, N3BRM, NB3C, KA3GSV, NU3P and NQ3V.

KD3IO

Department of State ARC

Meetings:	First working Monday of each month at 1200 Noon. Main State Department Bldg, Room 3524, Washington, DC
Foreign Service Net:	Every Sunday, 1500-1530Z on 14.316 1530-1600Z on 21.416 and 1600-1630Z on 28.416
Repeater:	W3DOS/R 145.19, open access. Round Table, Thursday nights 8:30

New officers were elected at the December meeting of the DOSARC. They include:

President: Tom Warren, K3TW
Vice Pres: Dave Wollen, AA4IC
Secretary: Bob Kragen, WA2ICO
Treasurer: Jane Dorset, KG3R
Trustee: Dave Wollen, AA4IC

Special thanks goes to Dex Anderson, W4KM, for his work on developing the slate of officers. Pres. Tom Warren, K3TW, has just returned from a two year tour in Dar eS Salaam and is already active in contesting. He tells us he worked some 45 countries in the recent CQWW DX CW contest using 3 watts.

Congratulations and good luck to the new officers!

Janie - KG3R

Shenandoah Valley Amateur Radio Club

Meetings:	First and third Fridays of each month at the SVARC clubhouse on Grace Street in Winchester, VA.
Repeater:	146.22 in 146.82 out
Club Address:	P.O. Box 139, Winchester, VA 22601
Information:	Mike Collins, W4ACC (703) 869-2191

The annual Christmas Party was scheduled for December 21 at the clubhouse. Now Dick - W4HXB is busy preparing for FIRST NIGHT WINCHESTER. The club has been requested to participate in this New Year's Eve event. Curt Chambers attended a recent club meeting and outlined some of his ideas, which included originating messges as well as having portable units at each of the places where the events are taking place. I am looking forward to the affair.

Some time ago I reported on Mike - W4ACC presenting to the club a plaque with thirteen charter member's names. Since that time, Cliff - KD4TZ passed on to me some photos of the event. See the photo below. Mike also provided the club with a plaque honoring the Silent Keys.

Walt - WA4HVU

Shown below, L to R

Charter Members

Warren - W4OHM, Mike - W4ACC, George - W4UGX, Kenny - W4TCK

Removing Decals and Stickers

Ever have trouble removing decals from your transceiver, car windows, or other pieces of gear? Even price tag stickers can be tough to get off. This tip from the folks at Ranger Boat Company can makes the removal of stickers and decals quick and easy. Use a hair dryer to gradually heat the entire sticker until it will peel off, then use white vinegar or WD-40 to remove any residue. Wash with soap and water and you got it. Tnx The Readout via RaRa Rag

"Ole Virginia Hams" Amateur Radio Club

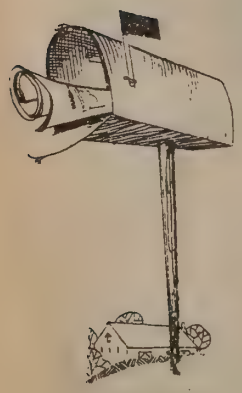
Meetings:	Third Monday of each month, 8:00 p.m. Northern Virginia Coop Building 10323 Lomond Drive, Manassas, Virginia
Repeaters:	Voice WA4FPM 146.97 and 224.66 Digipeater WA4FPM-1 145.09 Digipeater WA4FPM-3 223.40
Net:	Each Thursday, 8:00 p.m., 146.97 and 224.66
Information:	Harry Vorhauer - W4PVA 703-368-6050 Steve Frick - N4OGR 703-361-0008 or Metro 690-6547
Mail Address:	Ole Virginia Hams ARC, PO Box 1255, Manassas, VA 22110

On Thursday, Nov 14, Harry, W4PVA, carried an HT and some DX QSL cards to an extended care class of seven-to-twelve year old children in the Manassas Park Community Center. There was also a copy of Auto-Call showing a picture of the seven year old Technician Class ham. This was passed around with comments to the effect that "if a seven year old can do it, there are surely some here that could do it." It was explained what a QSL card is and some were passed around. Many questions were fielded. The use of the HT was demonstrated and the children were allowed to talk to one or more of the hams that answered Harry's call on the 146.97/146.37 repeater. Hams who responded included Tom, K4FHK; Margarete, KB4IKU; Keith, KM4AA; and Art, N4RII.

Use of an autopatch was also demonstrated and the emergency implications were explained. The entire demonstration was limited to about 45 minutes to limit the children's restlessness. Another visit may be scheduled for the near future.

On Saturday, December 1, the OVH club turned out nearly en masse to furnish communications for the Manassas Christmas parade. Dick, WD4AZG, organized the OVH efforts. Only one untoward event occurred and ham radio was not afforded the opportunity to play a role in it. An individual apparently had a heart attack about the same time as a rescue vehicle was passing by. The rescue squad took care of the problem.

Mike - N4REI



Bad addresses continue to be a problem - and a considerable expense - to Auto-Call. Third class mail will not be forwarded by the Post Office so, if we don't have a good, up-to-date address for you on our mailing list, we have to pay the Post Office a 30¢ handling fee to get a forwarding address - if they have it. If they don't have a good address either, it still still costs us 30¢ to find that out!

If you are moving, or if your mailing address is being changed even for a brief vacation period, please let us know well in advance. If you are one of the Snow Birds who go South for the winter and North for the summer, be sure to keep us advised. We'll be glad to make the temporary changes. We want you to get your Auto-Call but we can't afford first class postage to replace rejected mailings.

Please keep Auto-Call advised of address changes.

Mt. Vernon Amateur Radio Club (MVARC)

Meetings:	Second Thursday of Each Month, 7:30 p.m. (except December)
	Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria
Repeater:	WB4PDP/R 146.055 input 146.655 output
Nets:	Every Tuesday at 8:00 pm (0100 UTC Wednesday's)
	Starts on 2-meter then moves to 10-meter on 28.405
Information:	Chris Morrow, W4WYL (703)765-5964
Training Classes:	John Forrest, NZ4A (703) 971-3905
Mailing Address:	c/o Chris Morrow, W4WYL, 7408 Recard Ln., Alexandria, VA 22307

What a great program...THANKS to Paul Edwards, a scuba diver who showed some slides and had several items which he retrieved from various Japanese World War II wrecks. Thanks also to Dave - WA1LBP for his translations of the Japanese engraved/printed on some of the artifacts.

This meeting brought three new members...WELCOME to Matt Skahill - KI6GA, Larry Schimelpfenig - K7SV and Jon Allen - KC4KJA. CONGRATULATIONS to Aaron Claxton for passing his Novice exam. (I told you we had a ham-in-the-making!)

John - WZ4A reported that the January class is planned to begin the last Monday in January and will be Advanced/Extra. Please call John (971-3905) if you need information.

Just a reminder for those who have forgotten and information for those who never knew . . . club members frequently can be found at Chi-Chi's eating dinner just before the club meetings. Dick - AB4JX and I usually get there by 5:30 p.m., but others join us as time goes by (some arriving as late as 6:45!)

January will bring another great program so come let the comradery warm you (and your friends, loved ones, etc...) on the 10th!

Marci - KM4VM

From the Auto-Call Staff
To all Subscribers & Advertisers

We sincerely appreciate your support this past year and we look forward to continuing to serve you in 1991.

You will see a "New Look" with this issue, reflecting the capabilities of our new printer - COMPRINT Printers of Gaithersburg, MD and Dear Communications, Inc., of McLean, VA.

We hope you like it.

Phil Russo - N3GDD, FAR President
Tony Young - WA3YLO, AC Manager
Ethel Smith - K4LMB, AC Editor
John Swafford - W4HU, Circulation

K4LMB, W4HU & YF, Ann
Auto-Call Production Staff

G AND G ELECTRONICS
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.
Zip 20877

WANTED
FOR
CASH!

USED Ham Gear, Test Equip. and Junque Boxes

G&G ELECTRONICS OF MARYLAND 548
JEFFREY GOLDMAN
8524 DAKOTA DRIVE (301) 258-7373
GAITHERSBURG, MD 20877
March 1 19 87 65-7198/2550

PAY TO THE ORDER OF John Q. Amateur, WA4XYZ $ 500.00

Five Hundred and 00/100 ---------- DOLLARS

CHEVY CHASE SAVINGS AND LOAN, INC.
CHEVY CHASE, MARYLAND 20815

FOR Used Equipment ==== SAMPLE =====

⑆25507198⑆ 0548

We've got one for you!

HOURS: MON & TUES 11AM TO 9PM
WED 11 TO 5 & BY APPOINTMENT

258·7373

SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-/CALL at a rate of 3¢ per word -- with a $1 minimum. Commercial vendors and nonsubscriber rate is 17¢ per word - with a $5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Estate sales for Widows Assistance handled by a FAR club will be published without cost. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

WIDOW'S ASSISTANCE PROGRAM

Estate of Issac Pickell, W3PPQ

* HEATH SB101 Transceiver . . $100
* HEATH SB610 Monitor Scope . $75
* HEATH HN31 Cantenna Dummy Load$20
* HEATH RF Signal Generator . $15
* EICO 232 VTVM . . . . . $ 5
* HAMMARLUND HQ140x Rx Make Offer

Call Mrs. Florence Pickell. Note new # (301) 493-8661, Bethesda, MD (01)

ESTATE SALE

Estate of Dick Lynn, AF4W

TEN-TEC HERCULES Amplifier #444 with Power Supply #445 . . . . . $950
FREQ.CTR. MAX.100 with Prescaler RF-221 . . . . . $100
CAP.MTR. CSC #3001 . . . . . $150
"WORDS-PER-MINUTE" Meter . . . $75
COMPUTER PATCH, AEA CP-100 . . $200
KEYBOARD, MICROLOG AKB-1 . . . $200

All Prices OBO

Bill Miller - K4MM (703) 978-4020, Fairfax Station, VA 22039 (FAR-11)

ESTATE SALE

Estate of Louis Taich, W3IKX

* KENWOOD TS 930S with cw filter
  KENWOOD Automatic Antenna Tuner
  SW2000 SWR meter
  PC1A Phone patch
  Electro-Voice Model 664 mic.
  All for $999
* NATIONAL NCL 2000, KW Linear Amplifier, 80 thru 10 meters $499
* CDE Ham IV rotator with control box $150
* TELREX Monarch TM 30B 6-element tribander $195
* BENDIX sychro differential transmitter 31TDX6B 115V 50 Hz. Make Offer. Contact: Mrs. Louis Taich, (301) 239-7760, 3000 Hoffman Mill Road, Hampstead, MD 21074 (CHARS)

Need antenna or tower work done?
Call L. Chertok - W3GRF.
(301) 297-4888

ESTATE SALE

Estate of Rudy Wiliams, W3UBZ

* ICOM IC2KL Solid state linear amplifier $1000
* ICOM AT500 HF fully automatic antenna tuner $450
* ICOM IC55ID 50 MHz all-mode transeiver $550
* ASTRON RS20M regulated power supply $110
* ASTRON RS7A regulated power supply $100
* KENWOOD AT230 antenna tuner $155
* VANCO DC power supply $10
* AZDEN 10 meter FM Transceiver PCS280 . . . . . $180
* GONSET G-50 6-meter Communicator $70
* MIRAGE B108 2-meter 10-80 watt amplifier $135
* MIRAGE B1016 2-meter 150 watt amplifier $190

Will consider offers. Please call Bessie Williams (202) 882-7534 (01)

FOR SALE: MFJ 989C - 3KW Roller Inductor Tuner - Has one cracked capacitor insulator, but does not affect operation $175
Hustler 15M 2KW resonator, RM-15-$15
Multi coil Hustler X-Pander . $10
Also Kit PAD 55-20C, 55 volt, 20 amp power supply 0.005% line and load regulation. Minimum accepted $250
Call Burt - K2STV (301) 330-8274, Gaithersburg, MD. (01)

FOR SALE: Barlow-Wadley XCR-30 portable receiver, VG, with manuals (copies), collector's item . . $150
Japan Radio NRD-515 receiver with CW and narrow AM filters, memory unit, speaker and manuals $800
Call Alan - N4LUS (301) 229-7069 evenings, Bethesda, MD (01)

NORM'S ROTOR SERVICE
Rebuilt Rotors, Parts & Service
Call Norm Jeweler - K3LYW
5263 Agro Drive
Frederick, MD 21701
(301) 874-5885

SHACK SALES

FOR RENT: House with beam, 10-40 Meter dipole 80 Meter & Isapole 2-Meter. Three bedroom, Living Room, Dining Room, Kitchen, screened porch patio & fish pond. Near Gambrial State Park in Frederick County. N3COP. Phone my agent (301) 663-4442, Salisbury, MD (01)

FOR SALE: Ham Paradise about 1 hour from D.C. area. Tower, beams, full basement with finished radio room. 3 or 4 bedroom, DR, LR, 2 full baths, kitchen, built in book cases, wood stove plus electric plus gas heat; basement office, shop area, storage room and laundry area. Also extra large two car detached garage. Underground utilities. 10 acres - no TVI!

ALSO FOR SALE

The K4RZ (Honor Roll) fire lookout tower at 1800 feet, (walk up the steps - no climbing) will support about anything you can dream up! Now with 10-15-20 meter beams, prop pitch driven with RG-17 and hardline feeds. AC power on top along with intercom to house and garage. One hour 15 minutes to DC, 1 hour to Tysons, 45 minutes to Dulles, 5 min to Mt. Weather. Available early 1991 at $275,000. Call or write Frank Hoose, (703) 592-3891, Box 209 Bluemont, Virginia 22012 (03)

FOR SALE: Fifty foot windmill tower with Mosley TA33-40K triband beam and 40 meter dipole; HAM-M Rotator. You disassemble. . . . Make Offer George Willingmyre - K3SZZ, (301) 421-1752 ,Silver Spring, MD, (02)

FOR SALE: Tower 50' suitable unguyed for TV or light ham antenna. Larger antennas may require guying. New Alliance rotor/control and Channel Master Deep Fringe VHF/UHF/FM antenna included (75/300Ω). Asking $250 (OBO). Contact Ernie Farkas - K3CBW, (301) 747-1377, Catonsville, MD or call Ernie Jr. (301) 898-5996, Thurmont, MD (where tower is located). (01)

FOR SALE: E-Z Way TOWER, etc. Galvanized, crank-down, tilt-over, self supporting tower, with 60' extension mast. TELEX rotator with selsyn indicators. MOSLEY TA-33, 10-15-20M and Hy-Gain 8-element, 2-Meter beams. RF and control cables included. All for best offer near half what new towers now cost. Telephone W4AVU at (804) 971-9686, Charlottesville, VA. (01)

A REAL BARGAIN: You can have a 2" ad in AUTO-CALL for only $22(FAR)

INSTRUCTORS AND STUDENTS SAVE MONEY!

Get your Amateur Radio Class Needs at a savings and in a timely fashion!

Save on ARRL, AMECO, CALLBOOK, TI, code keys, oscillators, calculators.

TUNE IN THE WORLD WITH HAM RADIO Kit (List $19) 1-9 $17.30 10-up $16.15

1991 ARRL HANDBOOK (List $25) $22.75

1991 CALLBOOKS International or U.S. (list $29.95) $27.25 each.

JWO SERVICES

12 Hickory Place Camp Hill, PA 17011

(717-737-0850 Mastercard/Visa

Daily to 10 p.m. and weekend afternoons.

(C01)

FOR SALE: DRAKE L-4B amplifier. Excellent condition . . . . . $700 Charlie Wirth - WB3DDF Phone (301) 384-0198, Silver Spring, MD (01)

FOR SALE SANTEC ST-144 HT with mobile and wall charger, leather case with shoulder strap, speaker Mike $175
ALSO WANT: Mobile rig, dual band 2-mtr/220 MHz like Kenwood TM-631A. Greg - KA3DBG (301) 946-6460, Rockville, MD (01)

FOR SALE: HEATH SB104A, 80, 40, 20, 15, 10 & WWV; Desk Mike, SB604 power supply/speaker, MFJ 816 HF SWR/Wattmeter, all in mint condition. . . . . Asking $300 Approximately 250 ft each alum (CATV) coax, .50 & .75 diameter. Make offer. Frank Wessely - KA3UUC (301) 643-5542, Stevensville, MD(01)

WANTED: HEATH HO-10 Monitor Scope. Bob - W4JNN (703) 560-7161 or write PO Box 166, Annandale, VA 22003 (01)

FOR SALE: Palomar loop amplifier with long wave and 160/80 meter loops . . . . . $125.
DRAKE R4C / T4XC / AC-4 with extra crystals, cw filter, spare finals, manuals . . . . . $400.
ICOM R71-A receiver wit FL-44A, FL32A ad FM board $700
Call Alan - N4LUS (301) 229-7069 evenings, Bethesda, MD (01)

"RADIO INSTALLATIONS"
Clean - Neat - Professional
If you want it done right
Call us.
Herm - K2LEQ/3
(301) 952 1414
(C41)

WORLDRADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only $13 per year ($23 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest & Hamfest announcements, Aerials, Amateur Satellites, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Six Shots!, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to WORLDRADIO, 201 Lathrop Way, Ste. D, Sacramento, CA 95815. (Swp)

FOR SALE: Complete computer system: Commodore 128, 1902A Color Monitor, 1571 Disk Drive, 1351 Mouse, 1680 Modem. Packratt-64 TNC for Packet, CW, RTTY, AMATOR.
500XJ Epyx Joystick, Super Graphix by Xetec Printer Interface. Several word, spreadsheet, game programs and other extras. Selling only as a package. $500 firm takes it all. Call Dave - N4KET (703) 356-0996, McLean, Virginia (01)

FOR SALE: Radio Shack Model 100 Laptop Computer. Has 21K memory (up-gradable to 64K), printer cable, modem cable, AC adapter, manuals, hard and soft carrying cases. Perfect for portable PACKET operations. All for $260. Call Bill - WB2CPV (703) 250-5036 evenings. Falls Church, VA (02)

FOR SALE: Complete CW, RTTY, AMTOR System, includes TRS-80 Model III Computer, Macrotronics TERMINALL, all manuals, cables and software - $275. Tom - N4BYF (703) 538-5617, Arlington, VA 22207-1331 (12)

FOR SALE: Standard computer keyboard. In very good condition.
(I replaced with enhanced keyboard). Make reasonable offer. Call (703) 536-8469, McLean, Virginia (01)

FOR SALE: Electronic Memory Typewriter interfaced to use also as computer printer. Wide carriage, daisywheel, Royal model 5030. Manuals. Cost $1800 new but now outmoded. Make reasonable offer. (703) 536-8469, McLean, Virginia(01)

FOR SALE; KENWOOD HT TH-215 with second battery (2.5 watt) . . $225
Mike - WA4D (703) 845-5427, Alex(01)

WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC,Inc. is a non-profit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. As 1991 begins, please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, FAX (516) 674-9600 (12 Pd)

FOR SALE: TEN-TEC Model 546 Series C (Omni-C) with all filters, Model 234 speech processor, Model 243 remote VFO, Model 255 Power Supply.
All in mint contition.
Package deal only $890
N4FG, 8809 Stark Road, Annandale, Virginia Phone (703) 503-9844 (01)

FOR SALE:
* AEA PK 232, COMPACRATT, Manuals, Extras $250
* ROHN Thrust Bearing (New) . $50
* ROHN Heavy Duty Mast (New) . $50
* ROHN-45 Concrete base section $30
* HA Keyer $35
* Dummy Load Transformer Oil (per gallon) $5
* PVC 4" pipe for coax (/10') $2.50

Contact Joel - W3GOH (301) 670-9866, Darnestown, MD 01

Chevrolet
Chevrolet
Chevrolet
Chevrolet

N3GCV
DAVID J. HANBURY
New Trucks
Office: 949-2400
Home: 770-DAVE (8283)

Dick Stevens
10901 GEORGIA AVENUE
WHEATON MARYLAND 20902

SHACK SALES

FOR SALE:
MOTOROLA P-33 2-meter Transceiver, single channel (146.94) . . . $15
TEKTRONIX Model 114 Pulse Generator, like new $50
New 75 OHM HARDLINE, several hundred feet. Use small toroid at each end to feed with 50 ohm transmitter and antennas. See ARRL Handbook. With new toroids $75
SCOPE - HITACHI V152B, like new. Dual channel DC-15 MHz 5 mV/Div$400
GENERATOR, ONAN 4CCK12R 4 KW 120/240 volt, 2 cylinder, long lasting cast iron, slow speed (1600 RPM) electric start, dual carburator for gas or LP. With 8 gallon gas tank and LP regulator. Excellent condition $900
ENCLOSED RELAY RACK for cw person. Contains one each - 20-Mtr, 15-Mtr, 10-Mtr kilowatt (EIMAC 4-250A) amplifiers. Fully metered. Plate, screen, bias, & filament supplies, variac power control.
The works for $200
TUBES - EIMAC, Tetrodes, 4-250A/5D 22 (KW), 4-125A/4D21 (400 watt), 4-65A (100 W) New & used Make offer
NATIONAL 173/183 speakers (2) . @ $5
BEARCAT BC-III scanner with xtals for Loudoun, Clarke, Faquier Fire. Fairfax fire and other xtals are available. Includes boards for low band, high band, and UHF . . . $75
SEARS ADDING MACHINE Model 8/9. Paper tape output with 4 rolls of tape. $20
All items in excellent condition
Frank Hoose - K4RZ, Phone (703) 592-3891, PO Box 209 Bluemont, VA 22012 (located between Leesburg and Winchester) (03)

SERVICE
While U Wait
commodore
64/128/1541/1571 AMIGA 500
Authorized Service Center • In & Out Warranty
10% discount on repair with this ad,
13646 Jeff Davis Hwy.
Woodbridge, VA 22911
491-6502 643-1170
MWF 12-8 TT 10-5 Sat 10-4
Virginia Micro Systems

STOCK QSL CARDS
100 - $10.50 Shipping FREE
Send SASE for Samples
K3UAL Print
1520 Jutewood Avenue
Hyattsville, MD 20785
(01)

WANTED: Manual for WW-II Signal Corps Keyer - TG34A - 914Z - CZJ 115-230 Volt. Original or copy. Nick Smith - W3FNU (301) 598-9795 Silver Spring, MD (12)

FOR SALE: Quasi-Logarithmic Speech Processor, New England Electronic Engineering $25
Regency Model R -440 . . . . . $45
Heathkit HW-2021 2-meter HT, needs new final . . . . Make offer
Jack - W3VDL (703) 378-5704, Falls Church, Virginia (01)

WANTED: Circa 1960 Allied/Knight-Kit "Span Master," with instructions, building manual. Would like to have it in working order. Greg Stec, 1655 Langford Rd., Baltimore, MD 21207 (301) 744-6232 (Swp)

Estate of Robert True - W3QD
Operator's Oak desk with raised shelf. 32" deep, 30" high, 51.5" wide. Has six drawers (1 extra deep for hanging folders.) Two slide-out writing shelves, raised shelf 51" wide, 13" high, 17" deep. Has RF-free lamp built into shelf. Call Tony Young, WA3YLO (301) 262-1917, Bowie, MD. (FAR)

Attention Amateur Radio Newsletter Editors. AMATEUR RADIO NEWS SERVICE is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 60068 (SWP)

Become a part of one of the country's fastest-growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester, 249 Spring Gap South, Laurel, Maryland 20707. Phone (301) 725-4229. (Swp)

Society
Of Wireless Pioneers

THE INTERNATIONAL ORGANIZATION
OF PROFESSIONAL RADIO TELEGRAPHERS

WM J BROWN, SEC 365-2049

SRM

Serio, Romano & Mitchell
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CERTIFIED PUBLIC ACCOUNTANTS

JOHN T. NUTTMANN, CPA

7910 WOODMONT AVENUE
SUITE 1110
BETHESDA, MD 20814
(301) 652-5040

Skypoint Ham Center
101 E.Holly Ave
Sterling, Va 22170
703-430-5555

* Large inventory of used ham gear available..up to date & vintage!
* Professional service with modest rates and quick turnaround!
* Well stocked inventory of new rigs, station accessories and antenna needs!
* Collins equipment a specialty!
* Estate liquidations and sales welcomed!
* Customer satisfaction a priority!

Vintage Corner

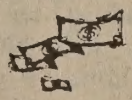
Collins S / Lines
Hammarlund HQ-170A
Hallicrafters HT-37
Johnson KW match box
Johnson Pacemaker
B & W 5100B xmtr
B & W 51SB ssb gen
B & W L-1000A amp
Gonset GSB - 201
Gonset GSB - 101
ARC - 5 eqp & accs
Ameco TX-62
NC-188
NCX-3
Eldico S / Line
Lafayette HA-350
Navy RBS-1 rcvr

Many other pieces too numerous to list!
Call store for more listings!

MONTHLY FEATURE

JAN 91

Price specials on selected items of MFJ & TE Systems!



* SWL equipment now a part of our stock!
* Ham logo T/shirts, sweats & hats available! A perfect gift idea.
* Price specials on selected KLM antennas. Inquiries invited!

STORE HOURS:

Tue-Thur..10 - 6
Fri..12 - 9
Sat..9 - 6

MasterCard ACCEPTED
VISA

Skypoint Ham Center is located on Route 846 or Sterling Park Blvd. Coming from Dulles on Route 28 north turn right on route 846. Out of Tysons take route 7 towards Leesburg and turn left on 846..Location is Holly Plaza Center. From Winchester and Leesburg take Route 7 to 846..

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes.

In determining space requirements, figure 80 12-pitch characters per line and 60 lines per page - including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 6¼" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address in not included in the ad, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

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Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - $1.00 per column inch for non-commercial ads, $5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

Rates per Issue

Page	Col.inch	1 Year	6 Times	3 Times	1 Time
Full	18	$75.00	$90.00	$100.00	$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2¼	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy.
Extra charges for halftoning photos
and for in-house artwork or layout.

Copy must be received by the 5th
of the month preceding publication date.
(e.g., Copy for August issue must be received by 5 July)

All Advertising Must be Pre-paid

JOIN ARRL

BENEFITS FOR YOU

QST, QSL Bureau Awards, Low Cost Insurance Operating Aids, Government Liaison and More—Much More!

MEMBERSHIP APPLICATION

Name _____ Call _____

Street _____

City _____ Prov./State _____ PC/ZIP _____

$30 in U.S. $42 elsewhere (U.S. funds) Licensed amateurs or age 65 or over, upon submitting proof of age, may request special dues rate of $24 in the U.S. $36 elsewhere in U.S. funds. Persons age 17 and younger may qualify for special rates, write for application. For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA, MC, AMEX, Discover # _____

Signature _____ Expires _____

The American Radio Relay League

225 Main St. Newington, CT. 06111 USA AUTOCALL

Atlantic Division Director
Hugh Turnbull, W3ABC
6903 Rhode Island Avenue
College Park, MD 20740
Phone: (301) 927-1797

Roanoke Division Director
John Kanode, N4MM
Rt 1, Box 73-A
Boyce, VA 22620
Phone: 703-837-1340

AUTO-CALL Magazine

P.O. Box 7612
Falls Church, VA 22040-1452

Please enter my NEW____ RENEWAL____ GIFT____ subscription to Auto-Call

For 1 Year _____ 2 Years _____
Subscription rate: $8.00 per year.

(Sample copy of latest issue $1.00)
will be applied to subscription

NAME _____ CALL _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Make check payable to the Foundation For Amateur Radio

JANUARY 1991

		1 Antietam PG Wireless	2 BARC MARC	3 Anne Arundel	4 Shenandoah	5 Stafford EXAMS GWU/DOS Chesapeake
6	7 Adams County Dept of State	8 Fauquier MADRAS	9 Pentagon - FAR -	10 Mt.Vernon No. VA	11 Alexandria Vienna	12 Stafford EXAMS Anne Arundel
13	14 PVRC SMARC	15 Antietam Arlington Woodbridge	16 BARC Goddard MARC QCWA #137 (odd)	17 Anne Arundel QCWA #20	18 RCARA Shenandoah	19 Capital City Tri County Stafford EXAMS Laurel
20 RICHMOND FROSTFEST	21 Ole VA Hams SPARC	22 Columbia MADRAS	23 Laurel	24	25 Alexandria St.Marys Vienna	26 Stafford New Carrollton
27 Adventists EXAMS Antietam	28	29	30 QCWA #20	31		

NCDXA Net every Sunday, 147.420-8:30 p.m.

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